AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JANUARY 1, 1952



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Feb. 4 to 6. New England Nurserymen's Association Cornelius P. Van Tol



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the January 15 issue will close Monday, December 31.

Forms for the February 1 issue will close Monday, January 21.

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AMERICAN NURSERYMAN

F. R. KILNER, Editor and Publisher Joan L. Kilner, Assistant Editor

Editorial

HAPPY NEW YEAR!

As the year ends, the peace of the world seems to be less threatened than twelve months ago: the American nation is becoming aroused to that morality which distinguished it in earlier eras, and nurserymen look back upon a season made hectic by vagaries of the weather, by production problems and labor shortages. Demand for nursery stock continues strong and will be kept at a high level by the volume of residential building. Every advantage is being taken of lulls in the wintry weather, because it is anticipated that the spring will bring new orders to fill.

The world seems to be in a state of change—if that be a state—but present circumstances give good reason for sincerity in the time-honored salutation and wish, Happy

New Year!

RESOLUTIONS.

Resolutions for the advancement of one's calling are appropriate at any time, but as the new year comes in, suggestions may be in order.

Some nurserymen might follow the example of their fellows who seek to dignify their profession, to raise the reputation of their calling generally. With modesty, some nurservmen talk of themselves as "bush peddlers" and deprecate their operations and methods. Yet in the next breath they lament that young men are not attracted to this field, that help is hard to hire in this industry. The public relations of the industry are fostered by the everyday practices and remarks of those within its ranks, just as much as by publicity campaigns.

Part and parcel of the foregoing is the attitude toward prices. The nurseryman who has "just a few bushes to sell" is not likely to ask much of a price for them. But the nurseryman who has sought to grow the best varieties, produce plants of the highest quality and serve the public with fullest satisfaction sees the prices in many nurserymen's catalogs as inadequate. When one compares the beauty and lasting results in the garden, the shrub or tree is quite cheap when compared with other home adornments.

The Mirror of the Trade

Following the same line of thought, nurserymen will find that support of the "Plant America" program is to their advantage. Wider than the nursery industry, it raises in public esteem the trees and shrubs of the nurserymen, whether in nature or in cultivation, as merchandise or as a thing of beauty.

Most nurserymen find their occupation so interesting that their sons, oftener than not, follow in their footsteps. Such a profession deserves the pride that most nurserymen feel,

but not all profess.

AFTER EXPRESS BUSINESS.

Through its employees the Railway Express Agency is conducting an aggressive campaign in an effort to recapture business lost since 1946, presumably to the parcel-post service. At a recent news conference, President A. L. Hammell estimated that the new restrictions on the size and weight of parcel-post packages that can be handled by the government after January 1 will make available to private enterprise about 60,000,000 packages annually.

The number of shipments handled by the express agency declined from 231,000,000 in 1946 to about

80,000,000 in 1951.

Now the agency hopes to get back a share of this loss because of the restrictions on parcel-post packages, but the higher express rates may turn out to be an impeding factor.

PERENNIAL BORDERS.

Since the plantings about the modern or ranch style type of house must be low, whether against the building or on the border of the grounds, the quantity of trees and shrubs which the nurseryman can sell for such a site is likely to be limited, at least until dwarf forms are propagated in greater number and variety. At any rate, one sees about such homes plantings of annual and herbaceous perennial flowers, most of them rather sparse in character.

Here there would seem to be an opportunity for the nurseryman making plantings about such homes to install that favorite of other days, the herbaceous perennial border. Not only is there an opportunity to enhance the landscape job and provide a colorful display, but also to provide for the homeowner's enjoyment over a period of years with a

minimum of maintenance and further expense. While annuals must be replaced each year, the perennial border will go on blooming season after season, with increase in size of plants, requiring dividing or renewal only after the passage of several years. While the initial outlay may be more, it should not exceed that for a planting of dwarf evergreens, for example, for which most homeowners would pay.

In catalogs and books relating to herbaceous perennials will be found skeleton plans of perennial borders. Or the landscape nurseryman may make his own plans, in which variety may be obtained both by arrangement of the plants and by selections of species and varieties. One wall of a nursery office might be given over to several such plans, together with colored pictures of the plants to be used, so that orders may be booked at any time of the year, with installation to be made in spring or autumn,

as circumstances direct.

Because the perennial border is more or less a permanent planting. its location and installation require care. An open, sunny position is necessary if the plants are to do their best, and generally a southern ex-posure is desirable. Deep and thorough cultivation of the soil is necessary, with liberal inclusion of plant food. Suitable background enhances the perennial border, whether it be a wall, fence or hedge. This frames and gives contrast to the colors of the flowers. As a hedge alongside the border will deprive the latter of some moisture and plant food, it is generally advisable to leave a pathway between the hedge and the flower border. This path provides access to the hedge for clipping and to the border for staking the back rows of the herbaceous plants. The perennial border should not be too narrow, probably not less than four feet, nor too deep for easy care, usually not more than twelve feet, and in the latter case access should be provided from both sides.

Color is increasingly prominent in the modern home, within and without, and the perennial border gives the nurseryman an opportunity to provide a feature that is appropriate

and satisfying.

ELECTED recently as first selectman of Ridgefield, Conn., was nurseryman Harvey D. Tanton.

New Jersey Opens Winter Sessions

By R. P. Korbobo, Secretary

New Jersey nurserymen gathered at Atlantic City on December 4 and 5 to attend their first 2-day winter meeting in many years. The temperatures flirted with the high 50's and low 60's to make one almost forget that Christmas was just a few weeks away. In fact, many members wired their regrets at not being able to attend due to late season rush jobs. The New Jersey soil has experienced but one slight freeze this winter, and that was unseasonably early! As this is being written (December 9) balmy, springlike weather is still prevailing here in New Jersey.

The program was dotted with such prominent names in the nursery industry as R. P. White, Howard P. Quadland, Howard Taylor, Frank LaBar and Owen Schmidt. Also, there was Phil Alampi, radio farm director of station WJZ and WJZ-

TV.

The educational part of the program began at 1:30 p. m. Tuesday as President Gerard Grootendorst, Oakland, N. J., delivered the president's address. He reviewed the accomplishments of the New Jersey Association of Nurserymen during the past year.

Azalea Panel Discussion.

Prominent on the program was a panel discussion on "Azaleas—Let's Cull Them Out." B. R. Leach, Leach's Nurseries, Riverton, N. J., was the moderator for this panel, which consisted of two men prominent in landscape design work in New Jersey and two important azalea growers. Mr. Leach himself was one of the latter, along with Roland de-Wilde, of deWilde's Rhodo-Lake Nurseries, Shiloh, N. J. Messrs. MacIntosh and Sharpe, of Turner Bros. Nursery, West Long Branch, and Howe Nurseries, Pennington, respectively, represented the landscape point of view.

As was expected, the topic needed little prodding by the members of the panel. The conversation was fast, lively and provocative both from the

floor and from the panel.

Everyone agreed that confusion is running wild in the azalea field because of the many new introductions. Not only is the amateur bogged down with hundreds of new offerings bearing all kinds of claims, but the professional as well is lost in the woods. Varieties, too many to note, were being brought into the discussion for two solid hours. Sharp criticism was leveled at many of the newer introductions and especially at the Glenn Dale hybrids. It was pointed out that the official descriptions of the plants and their flowers are far from accurate many times. Mr. Leach took some of the Glenn Dale hybrids as examples, read the official descriptions and then compared these with his own findings. They did not jibe too well.

Relative hardiness of certain groups and varieties also was discussed. As a result of this discussion, the association decided to appoint a committee to work in cooperation with Dr. C. H. Connors, head of the ornamental horticulture department of Rutgers University, in setting up a series of test gardens throughout New Jersey. These would function mainly to determine relative hardiness and desirability of many azaleas that are now questionable.

After the panel discussion, the nominating committee submitted its

URGES TV APPEARANCE.

To the Editor: We should urge the appearance on television shows by men in our business. I have been on with Mr. Alampi at least seven times and I have also had considerable experience with AM radio programs. If readers of the American Nurseryman have the opportunity to appear on a television show concerning some phase of the nursery industry. they should not be afraid to do so. It is an absolute truth that appearing on television is ten times simpler and ten times less nerve-racking than it is to appear on a regular AM radio program. In radio, the microphone sits right before you and it certainly can make many of us tongue-tied. However, in TV the boom mike follows you around just above your head. You rarely see it even for a short glimpse. Therefore, you more or less forget that you are being watched and you can be yourself on a TV program as you never could be on an AM show. R. P. Korbobo, Sec'y.

lists for next year's officers. These will be voted upon at the adjourned meeting, which will resume at Trenton, January 31.

Hear TV Garden Expert.

At this point in the program, the nurserymen from the northern part of New Jersey had an opportunity to see the best friend they have on television at New York city. This was Phil Alampi, radio farm director of WJZ and WJZ-TV. Mr. Alampi and his wife conduct the TV gardening program known as "Mr. and Mrs. Home Gardener." He also conducts three other AM radio programs during the week.

Mr. Alampi was asked to discuss briefly but frankly the possibilities of nurserymen's advertising over radio and TV. He pointed out that he had turned down two prospective sponsors because what they were trying to sell was not ethical in the true sense of the word. One of these had to do with the so-called Christmas rose and the other was a collec-

tion of plants and seeds. Mr. Alampi gave positive figures proving that advertising of nursery material, gardening equipment or anything that has to do with the landscape business certainly has paid off for all his sponsors. If there was one thing to be taken from Mr. Alampi's short but snappy talk that should have been remembered by every member who ever considers advertising it is this: He stated that 'No advertising cost is too high if it brings in a profit for you." Anyone who does any form of advertising certainly should mull over that thought in his mind before he starts saying that advertising costs are too

At the evening banquet, the members enjoyed a delicious roast beef dinner, followed by professional entertainment.

Protecting Stock from Theft.

The next morning's session opened with a short business meeting and committee reports. Captain Carlson, of the New Jersey state police, then spoke to the members on "Protection of Nursery Stock from Theft." He covered the basic fundamentals of preventive measures rather than cures. Prevention seems to be the most logical weapon the nurserymen have in protecting their large holdings. It takes little figuring to realize

the high cost of trying to fence in a nursery. Therefore, the captain suggested that employees be always on the lookout for suspicious people or cars, and for trucks ambling through or around the nursery and not stopping at the office for official inquiries. All such movements should be considered suspicious, according to the captain.

His logic lay in the fact that the noting of such items as nicknames, bodily appearances, the vehicle's registration numbers, any prominent scratches or dents on the body of the vehicle, etc., can be of great assistance to the state police in trying to track down the criminal. He described the police system of filing these pertinent data and showed us how even minute clues, such as the first two numbers on a Pennsylvania license plate, at one time helped the state police to track down a group of five men who were active in stealing nursery stock in New Jersey. Captain Carlson emphasized the fact that the police do not mind, in fact they very much desire, having reports sent in to them of suspicious characters or vehicles. Even though such persons may never turn out to be criminals, the chances are that if a good system of reports is kept, it will be much easier for the police to solve an actual crime when it is committed.

He described the services of the state police in regard to patroling nursery lands and also mentioned the public relations division. Through this division, the N. J. A. N. obtained

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BASSETT'S GARDEN STORE.

Leno Bassett, who has sold special soil mixtures to nurserymen in the area around Seattle, Wash., for thirteen years, recently opened Leno Bassett's Garden Store, on Highway 99, Seattle. Located in front of the



Part of the storage sheds, salesyard and soil mixer are located adjacent to the south wall of the store, near which Leno Bassett is standing.

soil-mixing bins and storage yard, the store is constructed of roughback slabs of quarried stone, sawed in random squares and rectangles. The rich, natural colors and the rugged texture of the stone make it a good background for plant material. In front of the building Mr. Bassett installed on August 25 a cherry-red plastic sign, with hollow block letters bolted to the frame and illuminated from behind. Three days later a windstorm smashed it, but it has been replaced.

The inside north wall of the building is of hand-split cedar boards that have been weathered for three years. The rear and south walls are of combed plywood, painted chartreuse, and the front is glass and stone. The ceiling is gray rockwood, with special fluorescent fixtures set flush. The floor is laid with brown marbleized asphalt tile, and the doors are natural stained hardwood. The fixtures are of light wood.

The new store features small

plants and shrubs, set outdoors under natural conditions until sold. Other items offered are bulbs, roots, garden supplies and equipment and quarried rock like that used to construct the building. Mr. Bassett will also continue to sell his soil mixes, which are prepared in a large grinder and are composed of peat moss from bogs he owns or leases, together with topsoil, mushroom compost and organic fertilizers. Special soil mixes are also prepared to order. At present, there are six employees at the Bassett establishment.

M. B. S.

PLANT supplements describing a new or unusual tree or shrub will henceforth be included with each issue of the Connecticut Nurserymen's Association bulletin. The first such article appeared in the December 8 issue and contained data on the origin, history, uses, availability and characteristics of Taxus cuspidata spaethi.



Tex Simmons, Driver; Lillian Haddock, Saleswoman, and Leno Bassett, Owner, Standing in Front of Leno Bassett's Garden Store.

Top Speakers on Wisconsin Program

Warm and clear weather, in contrast to the blizzard of the year before, favored attendance at the thirty-fifth annual convention of the Wisconsin Nurserymen's Association, at the Hotel Schroeder, Milwaukee, December 5 and 6. The program of speakers was the best in the association's history, each session featuring a talk of real interest and value. From fifty to seventy-five persons attended each of the sessions.

Election of Officers.

Officers for the ensuing year were elected in accordance with the report of the nominating committee. Howard Anderson, Nepco Lake Nursery, Port Edwards, was advanced from vice-president to president. Robert H. Gieringer, Milwaukee, was elected vice-president, and Thomas S. Pinney, Evergreen Nursery Co., Sturgeon Bay, was reelected secretary-treasurer.

As directors for three years were elected L. L. Kumlien, Kumlien Nursery, Janesville, retiring president, and Frank Kierfelder, Fonda Nursery, Milwaukee. As director for one year to fill Robert Gieringer's term was elected Vincent Frantal, Kenosha. Holdover members of the board of directors are C. L. Wachtel, Wauwatosa; John Gartmen, Fond du Lac, and W. G. Brown, Hartland.

President L. L. Kumlien dispensed with the usual official address, and Secretary-treasurer Thomas S. Pinney presented his financial statement in mimeographed form to expedite matters. The association showed a gain in its cash position from \$1,251.69 a year ago to \$1,673.90. Total disbursements for the year were \$2,140.94, about half of which came from membership dues and half from convention receipts, program advertising and exhibits.

A memorial resolution, read by the secretary, was presented on the recent death of R. C. Pippert, president of the association in 1948 and 1949.

Following a short opening business session in the morning, luncheon Wednesday noon was featured by an address on the subject, "Is Democracy Too Much Bother?" by Paul Reynolds, executive director of the Wisconsin Taxpayers' Alliance. The nonpartisan organization which he serves has its purpose in nonpolitical action to promote economical government so that taxes may be kept as low as possible. Mr. Reynolds

urged on citizens generally more interest in the election of those persons placed in public office, as well as in the taxes of various kinds levied on the citizens. Only by interest and concern in these matters can democracy be preserved.

A. A. N. Activities.

At the afternoon session, Peter Cascio, West Hartford, Conn., vicepresident of the American Association of Nurserymen, told of the progress made by the "Plant America" program. More and more state organizations and groups are carrying on the promotional work at the state level, and in some localities more intensive development has been undertaken. Besides this public relations program, the general activities of the association were described by Mr. Cascio, who sought a larger number of A. A. N. members among the Wisconsin nurserymen. He concluded his talk by signing up four applicants, equaling his mark at the



HOWARD ANDERSON.

Howard Anderson, nursery manager for the Nekoosa-Edwards Paper Co., who was elected president of the Wisconsin Nurserymen's Association at the annual convention last month, has been active in the state association for some years, having served as vice-president for two years and previously serving on the board of directors for three years. Mr. Anderson has held the position of nursery manager at Nepco for the past ten years and has been with the company since 1929.

The Nepco nurseries are a vital part of the company's forest program and, in addition to seedling and transplant operations for future pulpwood supplies, they are operated also for commercial sales of ornamental stock. Pulpwood species are developed for planting operations in Nepco's 110,000 acres of woodlands throughout the state of Wisconsin.

Minnesota meeting the day before.

Colored slides showing some details of the A. A. N. operations through the Washington office were displayed, with accompanying comments by Curtis Porterfield, Washington, D. C., A. A. N. administrative assistant. This combination of visual and oral presentation, offered for the first time at the Minnesota meeting, gives members a clearer insight into the nature of the national association's service.

"How to Reach for Sales Opportunities" was the title that did scant justice to the enlivening, almost inspiring talk, by H. P. Nutley, sales promotion manager of the Parker Pen Co., Janesville, Wis., since 1943. Of considerable previous advertising experience, Mr. Nutley graphically described how ideas were developed to increase the sale of Parker pens. He asserted that the business was one largely of advertising, and a large proportion of gross income must be spent in sales promotion year after year.

Generous advertising in colors in the national magazines is amplified in effect by the 127 salesmen of the company, who carry to pen store dealers everywhere colored proofs of the page advertisements as a demonstration of the tremendous readership reached. Sales helps are provided the stores, in the form of streamers, placards and window display material. Booklets are given the salesgirls to increase their sales efficiency with Parker pens.

In original ideas and in form of presentation, the promotional work of this company is outstanding. The stimulating value of sales ideas was emphasized throughout his talk by Mr. Nutley.

State Department Talks.

Opening the program Thursday morning, December 6, Donald N. McDowell, director of the Wisconsin department of agriculture since February, 1950, spoke on "The Nurseryman's Place in Agriculture." He referred not only to the part nurserymen play in food and berry production through furnishing trees and plants, but also to the aesthetic value of the nurserymen's contribution to the community and state in ornamental plantings about farmsteads and urban homes.

While Wisconsin is known as a dairy state, he said, there are other phases of agriculture there which

[Continued on page 60.]

Dwarf Shrubs for Ranch-type Houses

There has always been a need for dwarf and low-growing deciduous shrubs, but the demand for them has become increasingly more apparent with the advent of the ranch-type house. The number of really good hardy dwarf deciduous shrubs is limited.

They are worth a higher price in comparison with more rapid-growing

Summary of illustrated talk by Dr. L. C. Chadwick, of Ohio State University, at the meeting of the Minnesota State Nurserymen's Association, at St. Paul, December 4.

types of shrubs in similar size, because most of the dwarf shrubs are of slow growth. The price differential is necessary to make dwarf shrubs profitable to the nurseryman, although the public may not at first recognize this fact.

In arriving at desirable plants in this category the rating includes four factors. First is hardiness in the locality. Second is adaptability, to sun or shade, to heavy or light soil, etc. The third factor is durability—how long will the shrub retain a good appearance? While trees and background shrubbery may last for many years, dwarf shrubs and those of middle size used as accent plants may serve their purpose only for a few years.

The fourth factor is the effect through the year, which includes habit of growth, foliage and fruit as well as flower. None on the list of dwarf shrubs presented herewith includes a good rating for all four factors.

Someday it may be possible to use dwarfing stocks on ornamental shrubs, just as is done now on fruit trees. When that day comes, some of the desirable big shrubs will become quite useful in their dwarfed size in plantings about ranch-type houses.

In the list of small deciduous shrubs of four to six feet in height, which might be used as accent plants or at the corners in plantings about ranch-type houses, most are of the upright-spreading type, some dense, some open, some rounded in shape. Those with horizontal-spreading branches are few, and these seem particularly desirable in conjunction with the horizontal lines of the ranch-style house.

Not all of the dwarf shrubs in the list of one and one-half to four feet in height are good for foundation plants, but many of them may be used in one way or another about the low structures.

Small trees are important on the grounds of the ranch house. Though the list is not long, there are some useful species, and others may be adapted to this purpose.

In the following lists selection was made first of all of shrubs of the desirable sizes. Then all were eliminated except those hardy in zone 3 or 4 of Rehder, according to his "Manual of Cultivated Trees and Shrubs." Those on the list preceded by a star are hardy in zone 5, which is south of the lower boundary of Wisconsin, but it is thought that some of the plants so marked should be hardy along the shore of Lake Michigan in the southern part of the state.

CHARLES FIORE, youngest son of the owner of the Charles Fiore Nurseries, Prairie View, Ill., was recently inducted into service and is with the marines at San Diego, Calif. Only 21 years old, he had just entered business.

DWARF DECIDUOUS SHRUBS.

11/2 to 4 feet.

*Abelia grandiflora, glossy abelia. Amorpha canescens, lead plant amorpha. *Andrachne colchica, andrachne.

Aronia melanocarpa, black chokeberry. Berberis thunbergi compacta (nana), dwarf Japanese barberry. Berberis thunbergi atropurpurea nana,

dwarf redleaf Japanese barberry. Caragana pygmaea, pygmy pea shrub. Chaenomeles japonica, Japanese flowering quince.

Clethra alnifolia rosea, pink summer sweet.

Comptonia peregrina, sweet fern. Cornus stolonifera, Kelsey dwarf redo-

sier dogwood. Cotoneaster adpressa, creeping coto-

neaster.
Cotoneaster apiculata, cranberry cotoneaster.

Daphne giraldi, Girald daphne.
Deutzia gracilis, slender deutzia.
Diervilla sessilifolia, southern bus
honeysuckle.

Elsholtzia stauntoni, Staunton elsholtzia. Forsythia, Arnold dwarf forsythia. *Fothergilla gardeni, dwarf fothergilla.

 *Hydrangea quercifolia, oakleaf hydrangea.
 *Hypericum frondosum, golden

St.-John's-wort. Hypericum kalmianum, Kalm St.-John's-wort.

*Hypericum patulum, Sun Gold goldencup St.-John's-wort.

Indigofera kirilowi, Kirilow indigo.
*Lonicera alpigena nana, dwarf Alps
honeysuckle.

Lonicera claveyi nana, dwarf Clavey honeysuckle. Lonicera spinosa alberti, Albert thorn honeysuckle.

Lonicera thibetica, Tibet honeysuckle. Physocarpus intermedius parvifolius, dwarf Illinois ninebark.

Potentilla fruticosa, golddrop bush cinquefoil.

Potentilla fruticosa veitchi, Veitch bush cinquefoil. Prunus tenella alba, white Russian

almond.

Prunus tenella gessleriana, redbud

Russian almond. Rhus aromatica, fragrant sumac.

Ribes alpinum, alpine currant. Rosa spinosissima, Scotch rose. Salix purpurea nana, dwarf purpleosier willow.

*Spiraea japonica atrosanguinea, Mikado Japanese spiraea. Spiraea macrothyrsa.

Spiraea macrothyrsa. Spiraea multiflora, Snowgarland spiraea. Symphoricarpos orbiculatus (vulgaris), Indian currant coralberry.

Viburnum opulus nanum, dwarf European cranberry bush.

SMALL DECIDUOUS SHRUBS.

4 to 6 feet.

*Aronia arbutifolia, red chokeberry. *Berberis mentorensis, Mentor barberry. Chaenomeles lagenaria, common flowering quince.

Cornus alba sibirica, Siberian dogwood. *Cotoneaster divaricata, spreading cotoneaster.

*Cotoneaster multiflora calocarpa. Cotoneaster racemiflora soongorica, Sungari redbead cotoneaster. Cotoneaster zabeli, cherryberry coto-

neaster.
*Deutzia lemoinei, Boule de Neige deutzia.

Euonymus alatus compactus, dwarf winged euonymus.

*Hamamelis vernalis tomentella, woollyleaf vernal witch hazel. Kerria japonica, Japanese kerria. Ligustrum obtusifolium regelianum,

Ligustrum obtusifolium regelianum, Regel's border privet. Lonicera korolkowi zabeli. Malus sargenti, Sargent crab apple.

Myrica pensylvanica, northern bayberry.

*Philadelphus lemoinei, Avalanche mock orange.
Philadelphus virginalis, Argentine mock

orange. *Philadelphus, Cole's Glorious mock

orange.
Philadelphus, Snowflake mock orange.
Philadelphus, Sylvia mock orange.
Prinsepia sinensis, cherry prinsepia.

Prunus besseyi, Bessey cherry. Rhodotypos scandens, black jetbead. *Rosa harisoni, Harison Yellow rose. Rosa rugosa, Vanguard rugosa rose.

Rosa virginiana (lucida), Virginia rose. Symphoricarpos albus laevigatus, garden common snowberry.

*Syringa microphylla, littleleaf lilac. Viburnum acerifolium, mapleleaf viburnum.

*Viburnum bitchiuense, Yeddo viburnum. Viburnum carlesi, Korean spice viburnum.

*Viburnum chenaulti, Chenault viburnum.

*Viburnum dilatatum, linden viburnum.
*Viburnum dilatatum xanthocarpum,

yellowberry linden viburnum. Viburnum tomentosum, double file viburnum.

*Weigela, Bristol Ruby weigela.

Chinese Air Layerage

By Richard H. Fillmore, Propagator, Arnold Arboretum

The ancient art of Chinese air layerage, sometimes called marcottage or the gootee method, has been made much more practicable by the development of gas-pervious but water-impervious plastic films. Many centuries before such films were obtainable, however, Chinese gardeners and horticulturists had begun to propagate various woody plants by the air layering method. A ball of moist sphagnum moss or other rooting medium was bound around the stem. This moss was then kept moist by frequent waterings.

The difficulty of watering the unprotected moss soon led to the use of small brass pots. A long flap of wood was partly detached from the stem, as illustrated in step 1 in the accompanying diagram. The basal portion of this flap was placed in a small pot, which was then tied to the layered branch. The pot was filled with sand or soil, which could be kept moist by relatively infrequent waterings. In modern times, English and European propagators have secured a substantially similar effect by enveloping the air layer with flower pots made in two sections.

In some tropical countries, the unprotected ball is kept moist by the continuous drip method. A bamboo joint may be suspended above the ball so that the water drips slowly downward along a wick-like string, which is embedded in the ball. Other containers, such as tin cans, should work equally well.

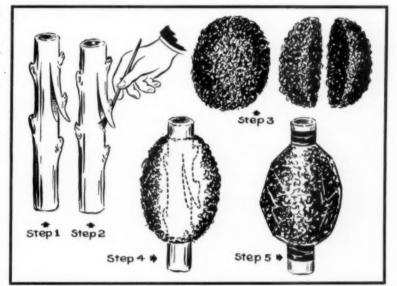
In 1947, Col. William E. Grove, Laurel, Fla., made the first application of modern plastic films to Chinese air layers. By using a suitable film, air layers can be kept moist for months without additional water. Such a film, moreover, permits an exchange of carbon dioxide and oxygen, without which roots cannot develop properly. Although primarily concerned with commercial propagation of the litchi tree, Colonel Grove reports good results with several other species, including roses and hibiscus. John L. Creech, horticulturist at the United States Department of Agriculture plant introduction garden, Glenn Dale, Md., has had good success in propagating rhododendrons with plastic air layers.

Plastic air layers are now being tested on a wide variety of northern woody plants, both in the collections at the Arnold Arboretum and in nurseries. This work is still in the experimental stages, but some promising results have already been secured. Lilacs and crab apples seem to root particularly well. It must be remembered that plants, such as witch hazels and smoke trees, which are difficult to propagate by other methods, will probably also be difficult by air layerage.

Although early spring is probably the best time to apply air layers, the author believes that it would be worth while to apply them at any time during the growing season. Should air layers, applied in summer or early autumn, fail to root before winter, they can be left on the plant, in which case they may root the following spring.

The time required for rooting will probably range from six to twelve or more weeks, depending upon the individual species. Easy-rooting subjects, such as privets and poplars, will root much more quickly than Ghent hybrid azaleas or rhododendrons.

When the air layers have rooted, they should be detached by severing the stem just below the layer. The mass of moss and roots should be disturbed as little as possible, but the plastic must be removed before the layer is planted. Dormant-rooted layers could probably be grown successfully in open nursery rows, but layers removed while in active growth will generally require a sheltered location or even a cold-frame.



Step 1. Upward and inward cut about one inch long. Begin this cut about onequarter inch below a bud and penetrate the stem for about one-third of its diameter. On larger stems, a cut somewhat longer and shallower in relation to stem diameter would be more appropriate.

Step 2. Apply hormone powder, if desired, with knife blade or small brush.

Step 3. Work sphagnum moss, which has been previously screened through one-half inch mesh and moistened, into a fairly firm ball about two or three inches in diameter and "hreak" this hall into two portions.

and "break" this ball into two portions.

Step 4. Apply ball of moss to the stem, completely enveloping the area of the cut.

Step 5. Wrap moss with a suitable plastic film, allowing generous lap. Bind film firmly at top and bottom. Avoid funnel formations at the top. On horizontal branches, have the lap on the lower side.

have the lap on the lower side.

Notes: 1. The moss should be only moist, not wet. It should not be possible to squeeze any appreciable amount of free water out of properly moistened moss. In some instances, it may be desirable to combine sphagnum moss with soil. 2. Scotch electrical tape 33 is an excellent material with which to bind air layers. Its use was suggested by James M. Rooney, Attleboro, Mass.

Reprinted, with permission, from Horticulture, August, 1951, published by the Massachusetts Horticultural Society. This material on air layerage enlarges upon Mr. Fillmore's discussion of the subject in his article, "Review of Woody Plant Propagation," which appeared in the December 1 and December 15, 1951, issues of the American Nurseryman.

Reviews of New Books

WYMAN ON TREES.

To those who have made use of Dr. Donald Wyman's book, "Shrubs and Vines for American Gardens," published two years ago, there will be little need to recommend his volume entitled "Trees for American Gardens," just published by the Macmillan Co., at \$7.50. It carries out the same purpose of instructive reference for layman or professional, being a welcome addition to the reference library of a nurseryman or any other person interested in trees.

The major portion of the book is given over to the alphabetical presentation of recommended trees, which number 745. In each case the botanical and common names are given, together with the zone to which it is hardy and the height reached at maturity. Habit, foliage, bark, autumn color, habitat and date of introduction are treated briefly. Desirable varieties are described. In addition, a paragraph or two of comment provides that information which will enable the reader to evaluate a tree with which he is not familiar. All this material is given in popular style, not in the technical terms of botanists.

Introductory chapters discuss hardiness, bloom, ornamental fruits, foliage colors and trees for various purposes. The up-to-date lists presented in this connection should be useful.

A secondary list of 1,600 species and varieties indicates the author's opinion of those not given discussion. Colored maps show hardiness zones and the regional advance of spring. Many black and white illustrations of tree species appear.

The author is widely known, for his lectures and writing, as horticulturist of the Arnold Arboretum of Harvard University, at Jamaica Plain, Mass., having held this position since 1936. His book includes recommended trees for the southern and western states as well as those for the latitude in which the arboretum is located.

TROPICAL TREES.

Those persons who are intrigued by the flowering trees of the tropics will find enjoyment in "Flowering Trees of the Caribbean," just published by Rinehart & Co., Inc., at \$10. This handsome book of 125 pages, 9x12 inches, contains thirty color plates from paintings by Bernhard and Harriet Pertchik. These include some trees which may be seen in the lower south in this country, such as Plumeria rubra and alba, red and white frangipani; Jacaranda filicifolia, fern tree; Bauhinia variegata, orchid tree, and Melia azedarach, chinaberry, but more are of equally flamboyant tree blossoms of the islands to the southeast. The paintings show the flowers and leaves of life size, but not the tree entire.

Two or three pages of text tell of each tree in popular language, but technical accuracy was obtained through the cooperation of botanists most familiar with the trees. The cost of art and engraving was underwritten by the Alcoa Steamship Co., whose vessels ply the Caribbean, so that the publishers could offer the work at the price named. It is an artistic and informative work.

FLOWERS FOR OCCASIONS.

That special occasions call for flowers is the theme of Joy Fleming's new book, "Flowers for the Occasion," following closely her first success, "Floristry and Flower Arranging," which has proved a favorite with both amateur and professional floral artists. Miss Fleming's most recent work, published like her first by the World's Work (1913), Ltd., Kingswood, England, is priced to sell at \$4 per copy in the United States and features the same format, fine-quality illustrations, simplified how-to-do-it line diagrams and informative, readable text, which popularized the earlier volume.

Confining herself this time to a less general floral arrangement theme, the authoress has devoted her attractive new book to the designing of the proper flowers for specific occasions. Seven full-page color plates, three black and white half-tones and 150 diagrams show the various steps in creating each design and the finished arrangements, with separate chapters on Christmas decorations, flowers for the mantelpiece, party decorations, wreath and bouquet making and appropriate arrangements for the four seasons. An interesting innovation is a chapter on prolonging the lives of cut flowers and leaves.

This book combined with the earlier "Floristry and Flower Arranging" would make a valuable reference set.

Miss Fleming, holder of the British Floral Art diploma of the Royal Horticultural Society and the Constance Spry diploma, has had wide experience in both London and South Africa as a lecturer on flower arranging and design.









Four paintings by Bernhard and Harriet Pertchik used to illustrate "Flowering Trees of the Caribbean." Top, left to right, Malay Apple and Rose of Venezuela; bottom, left to right, Pride of Burma and Yellow Poui.

Michigan Landscape Conference

By F. L. O'Rourke and Harold Davidson

One hundred and fifty landscape gardeners gathered at Michigan State College, East Lansing, December 7, for a one-day landscape gardeners' conference held in the Union building. The conferees were welcomed by Dr. H. B. Tukey, head of Michigan State's department of horticulture, who stressed the importance of gatherings which promote friendly relationships within the industry.

Prof. Forrest Strong, of the department of botany and plant pathology, reviewed the Dutch elm disease problem in the United States and its recent development in Michigan. Dr. Strong stated that all specimens from suspected trees within the state of Michigan should be sent to the department of botany, Michigan State College, where identifications will be made as quickly as possible. Five or six specimens, approximately eight inches in length and one and one-half to two inches in diameter, selected from various dving branches in the tree should be wrapped in moist paper or cloth and mailed without delay. Dr. Strong reported that the oak wilt disease has now been found in thirty-three locations in thirteen counties in southern Michigan. During the past summer an aerial survey was conducted jointly by the Michigan state department of conservation, the state department of agriculture and Michigan State college. Slides were shown to illustrate the symptoms of each of the tree diseases.

The principles of landscape design for the small property were discussed by Prof. Carl Gerlach, of the department of landscape architecture. He distributed printed sheets containing eight different plans for a small suburban home property. These plans were accompanied by rating sheets upon which each person could score each plan in regard to a number of pertinent items of design. There was some discussion within the group as to the proper scoring of these landscape items, and the merits and demerits of each plan were readily recognized.

Home Planting Development.

The afternoon session was devoted to a panel discussion on methods used properly to prepare the grounds and develop and maintain the home planting about a new residence. A panel of seven staff members of Michigan State College each presented a special feature pertaining to the general landscape picture.

Prof. W. A. Malone, department of landscape architecture, stated that the topography of the lot should be studied before the house is built in order that the residence be properly placed in regard to the slope and exposure of the grounds. The height of the house will affect the distance it should be placed from the street so that the lawn will appear in proper proportion. Professor Malone stressed an area which should be enclosed for privacy suited to the individual family's requirements. He stated that the idea of this private outdoor area was borrowed from old Chinese and Japanese gardens which were devoted to the use of the family. Whenever guests were invited to such areas, it was an expression of distinct honor.

He indicated that in modern America such formalities are not necessarily observed, but still the private garden area should be one in which family enjoyment is of prime importance. These private

areas may be enclosed in various ways, such as by clumps of shrubs and evergreens, hedges or fences covered with vines. This private area should look good from the inside out as well as from the outside in. It is important that unity be observed in design and material. The climate may be modified by properly placing various plants in order to furnish shade, reduce wind velocity and otherwise modify the temperature. One important point that Professor Malone mentioned was that when wind velocity is reduced from fifteen miles per hour to three miles per hour, the fuel consumption may be cut approximately in half.

Cost estimating was discussed by Prof. Jack Gartner, of the department of horticulture. Professor Gartner stated that it is difficult to draw up any set rules by which costs may be rapidly determined for landscape work such as is commonly done in many trades and industries. The reasons are that there is great variation in labor costs for different communities and in different seasons, and much variation in soil, ter-

[Continued on page 56.]

MICHIGAN LANDSCAPE CONFERENCE ORGANIZED.

A new organization, to be formally known as the Michigan Landscape Conference, was organized December 7, 1951, in conjunction with the landscape gardeners' conference program at Michigan State College. This formal organization was an outgrowth of work done by an organization committee elected at the annual summer meeting of the nursery and landscape management conference held in July at Michigan State College. This organization committee, under the chairmanship of Harold Hicks, Lansing, Mich., met December 6 in order to discuss the merits of a proposed constitution and bylaws and to suggest candidates for various offices to be filled.

At the meeting in the afternoon of December 7 the constitution and bylaws were adopted and the following officers were elected: President, Harold Hicks, Lansing; vice-president, John Stark, Midland; secretary - treasurer, Mrs. Jane Smith, Lansing; members of board of directors for 3-year term, John J. B. Light, Richland, and Theodore R. Laetz, Bay City; members of board of directors for 2-year term, Joseph J. Polco, Detroit, and Edwin E. Smith, Lansing, and members of board of directors for 1-year term, George Merriweather, Plymouth, and Ernest Durrant, Grand Rapids.

It was decided to continue to publish a monthly bulletin and to stimulate educational programs at various times and places for the benefit of the members. Membership is open to all persons engaged in any phase of ornamental horticulture or landscape operations, including growing, planting, selling, and maintaining plants, lawns and gardens.

F. L. O'R.

Guest Speakers on Nebraska Program

By Charles W. Andrews, Secretary

A series of informative committee reports and addresses by authorities in the field featured the annual meeting of the Nebraska Association of Nurserymen, held December 10 and 11 at the Cornhusker hotel, Lincoln. President Charles Hurlburt, formerly of Fairbury Nursery, Fairbury, was unable to attend, and Vice-president Howard Edmondson, Marshall Nurseries, Arlington, acted as chairman at the meeting. He reported that Mr. Hurlburt is now living at Tulsa, Okla., where he has recovered sufficiently from arthritis to be able to work.

At the annual election of officers, Howard Edmondson was advanced from the office of vice-president to that of president. Duard W. Cronn, Madison, was elected vice-president, and Charles W. Andrews, Marshall Nurseries, Omaha, was reelected

secretary-treasurer. Chet Marshall, Marshall Nurseries, Arlington, chairman of the research committee, reported that the federated garden clubs of Nebraska plan to contribute funds to the experiment station at North Platte and have asked Nebraska nurserymen to assist. It was decided that the association will donate \$100 for experimentation with woody plants. Harold Glissman, Omaha landscape nurseryman on the research committee, discussed new grasses, giving special praise to Merion bluegrass.

Favor Licensing Arborists.

After a report by Gus Gritz-macher, Plumfield Nurseries, Fremont, chairman of the public relations committee, it was decided that all members should continue to promote the proposition to employ a landscape architect to plan landscaping on all state properties and to request that all arborists selling their services for trimming or spraying be required to pass an examination and receive a certificate.

The legislative committee, headed by Vernon Marshall, Marshall Nurseries, Arlington, was asked to contact the Federal Housing Administration and suggest that all FHA loans for nursery stock purchases be checked to see that the grade of stock indicated on the request for the loan is actually delivered. Joe Abrahamson, Shenandoah, Ia., reported that encouraging results have been brought about by such action

taken in other states. It was decided to drop the lawsuit regarding farm truck licenses.

Members of the spray committee recently met with representatives of the University of Nebraska, Lincoln, to discuss the formulas of the uniform dust and spray now being packaged under the label of the Nebraska Association of Nurserymen. The committee, headed by Harvey Williams, Williams Nurseries, Lincoln, recommended to the membership that no change be made in the contents of the dust or spray. The membership asked that the committee investigate the possibility of other sprays being packed in this manner.

It was decided to appoint a new standing committee for the "Plant America" campaign. The president was instructed to confer with Howard P. Quadland, publicity director, American Association of Nurserymen, to obtain publicity material for the committee. It was also requested that a committee be appointed to meet with representatives of the university to formulate a list of woody plants suitable for Nebraska. Such a list would be similar to the tree list made up in 1947.

The application for membership of Prusha Nurseries, Omaha, was accepted. Henry Edwards, arborist, Lincoln, was accepted as an asso-

ciate member.

To Study Identification.

Dr. C. C. Wiggans, head of the horticultural department, University of Nebraska, read a letter which questioned the interest of Nebraska nurserymen in true-to-name identification methods. Lloyd Moffet, Fremont, and Chet Marshall, Arlington, were appointed as a committee to study the matter.

During a recess in the business meeting, members of the Nebraska chapter of the American Associa-

tion of Nurserymen met.

At the noon hour, a special luncheon was provided, at which Dr. W. V. Lambert, dean of the college of agriculture, University of Nebraska, gave an illustrated lecture, entitled "Agriculture in Africa." He recently traveled throughout most of Africa on a special government mission and expressed his delight in returning home. In relating his experiences, he described the primitive peoples, their customs and the advantages of British tutelage.

Dr. Lambert pointed out the need for help in agricultural Africa and observed that we in America are fortunate by comparison. Our government has assumed a sense of responsibility and duty in helping these people, but the question is, how fast and how much can we spend?

In the evening, fifty-nine persons attended the annual banquet, at which Chet Marshall acted as toastmaster. Several guests from the university and government offices were introduced. Wayne Whitney, state extension horticulturist, acted as jester at the banquet. The address of the evening, "The Fool Things We Do," was given by Dr. Roy W. Deal, head of the psychology department, Nebraska Wesleyan University, Lincoln.

Two ideas presented by Dr. Deal are worthy of additional thought. One is the noticeable appeal to the lower mentality used in advertising and selling. We must decide whether, in the long run, it is a profitable procedure. The other thought is that most Americans are tolerant, healthy, well fed and happy people, more fortunate than the people in most other countries. We should plan and act in such a way that we will bring happiness to others and thereby preserve our own happiness.

Discusses Landscape Materials.

Approximately seventy people attended the session Tuesday morning, at which the first speaker was Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus. His talk was entitled "The Best in Landscape Materials." He showed pictures of trees and shrubs not commonly used, described their appearance and uses.

Dr. Chadwick emphasized the need for low-growing shrubs to be used for landscaping the lawns of homes built in modern architectural styles. He mentioned the difficulty in determining a sales price for dwarf varieties, because customers do not realize the cost involved in raising them. The age of a drawf shrub, for example, may be greater than that of a taller-growing variety when both are the same height. Two things must be done to sell dwarf shrubs to the public: New dwarf shrubs must be created, and better selling methods must be worked out for those we now have.

[Continued on page 58.]

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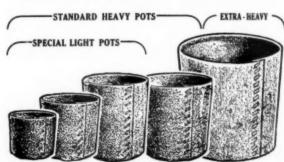
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Plant Notes Here and There

By C. W. Wood

To start off the notes for this issue, I shall try to advance a few ideas on the propagation of the candelabra primroses in answer to a question which reached the desk some time ago.

In the first place, most species of this section hybridize with ease; so one has to be careful about sowing garden-saved seeds if he expects to obtain true-to-name material. It is generally safe to say that the average lot of seeds will prove untrue to name. Again, this habit of promiscuity has given rise to many lovely hybrid forms, which must be propagated by vegetative means, a task that is usually accomplished by dividing the clumps immediately following the flowering period. That is a rather slow process for the commercial grower, though it is sure to result in true stock.

More rapid multiplication is usually possible from stem cuttings. Often one finds a plant with what botanists call adventitious leaves on the flower stems. When these are found, cut away the stem above those leaves so they will develop into a tuft. Then these should be cut away attached to the stem by severing the stem just below the tuft. Planted in pots of good soil and placed in a shaded frame, they will soon form roots and grow into strong plants.

Butterwort.

A New Jersey reader asks if it would be possible for him to grow butterworts for his clientele of advanced and curious gardeners. To be entirely frank, I doubt it, but I am giving some results of experience here in northern Michigan years ago, thinking that he can draw his own conclusions.

To the student there are few plants more interesting than the butterworts. The first characteristic to attract attention will likely be their carnivorous nature, which is carried out by means of a sticky secretion on the grassy leaves; it may be easily observed on the common species of our northern states, Pinguicula vulgaris, by anyone interested in such matters.

The plant is usually found growing on wet, moss-covered rocks, often along streams or the edges of bogs. There it makes a rosette of broad leaves, and, if the time is between

the first of June and August, it will no doubt be carrying one or several 4 to 8-inch scapes, each bearing a single, rather 2-lipped, spurred, violet-purple flower, somewhat resembling a linaria bloom. Nearly always the leaves will be holding tiny insects on which the plant is said to feed, one authority claiming that each leaf possesses several thousand glands which secrete a digestive ferment.

Further observation through the year will reveal the butterwort's curious way of passing through the dormant period from fall until spring, a phase which seems to have escaped commentators in the available literature. As winter approaches, the rather ample rosette of leaves is slowly replaced by a tight, little, bulblike bud, apparently with little or no anchorage,

for the roots seem to wither away at the same time the leaves disappear. That habit would no doubt be disconcerting to gardeners, because one would not be sure of finding the plants in spring in the place where they were apparently well established when they went to rest.

Unfortunately, the plants are rarely seen in gardens, presumably because their carnivorous nature spells difficulty to most gardeners. I cannot speak with authority on that phase of butterwort lore, because my garden here in northern Michigan is much too dry for their comfort. Judging from the behavior of P. vulgaris as a pot-grown plant in our cold house, garden culture would offer few difficulties in moist situations. As a matter of fact, the plants do not need so much moisture as is generally supposed. Here,

We wish to extend to our customers
our thanks
for their kind patronage
throughout the year
and to wish everyone in the trade a

HAPPY, HEALTHY, PROSPEROUS NEW YEAR

LEGHORN'S EVERGREEN NURSERIES
Geer St. Cromwell, Conn.

EVERGREENS

300 acres of choice Evergreens ready for immediate resale.

Write for list.

GARDNER'S NURSERIES, Inc.
ROCKY HILL, CONN.

ROSA MULTIFLORA JAPONICA

Seedlings of upright, thorny type for living fences, conservation and understock. We have an excellent block of this item.

BROOKVILLE NURSERIES
GLEN HEAD, N. Y.

STRAWBERRIES-ASPARAGUS-GRAPES

For Immediate or Later Delivery, as Desired.

Carefully dug, graded and packed for shipment.

STRAWBERRY PLANTS Grown in chemically treated soil; free from disease and insects.

We are facilitated to take care of your Strawberry orders, large or small, making shipments direct to your customers under your tags, or direct to you in large lots for reshipment. We recommend shipping soft, succulent plants like Strawberries direct from grower to customer. When handling orders in this manner, plants are received by the customer in good fresh condition for planting. We are furnishing plants in this manner for several of the larger catalog houses throughout the country. Dormant plants from our modern cold storage are used in filling all late spring orders because experience has proven they are much more satisfactory. Write us for details on our pack-out service on Strawberries.

| | Per 25 | Per 100 | Per 250 | Per 1000 |
|-------------------|--------|---------|---------|----------|
| Ambrosia Late | \$0.40 | \$1.25 | \$2.25 | \$ 8.00 |
| Aroma | .40 | 1.25 | 2.25 | 8.00 |
| Big Joe | .40 | 1.25 | 2.25 | 8.00 |
| Blakemore | | 1.25 | 2.25 | 7.50 |
| Catskill | | 1.35 | 2.50 | 8.50 |
| Chesapeake | | 1.35 | 2.50 | 9.00 |
| Dorsett | | 1.25 | 2.25 | 8.00 |
| Dunlap | | 1.25 | 2.25 | 7.50 |
| Fairfax | .45 | 1.35 | 2.50 | 8.50 |
| Fairland | .40 | 1.25 | 2.25 | 8.00 |
| Fairpeake | | 1.35 | 2.50 | 8.50 |
| Gem (Everbearing) | | 2.50 | 4.75 | 17.00 |
| Klonmore | | 1.25 | 2.25 | 7.50 |
| Lupton Late | | 1.25 | 2.25 | 8.00 |

| | Per 25 | Per 100 | Per 250 | Per 1000 |
|----------------------------|--------|---------|---------|----------|
| Mastodon (Everbearing) | | \$2.50 | \$4.75 | \$17.00 |
| Massey | .40 | 1.25 | 2.25 | 8.00 |
| Midland | .45 | 1.35 | 2.50 | 8.50 |
| Premier | .45 | 1.35 | 2.50 | 8,50 |
| Red Crop | .40 | 1.25 | 2.25 | 8.00 |
| Red Star | .45 | 1.35 | 2.50 | 8.50 |
| Robinson | .40 | 1.25 | 2.25 | 8.00 |
| Streamliner (Everbearing) | .75 | 2.50 | 4.75 | 17.00 |
| Southland | .40 | 1.25 | 2.25 | 8.00 |
| Superfection (Everbearing) | .75 | 2.50 | 4.75 | 17.00 |
| Sparkle | .40 | 1.25 | 2.25 | 8.00 |
| Temple | .40 | 1.25 | 2.25 | 8.00 |
| Tennessee Beauty | .40 | 1.25 | 2.25 | 8.00 |
| Tennessee Shipper | .40 | 1.25 | 2.25 | 8.00 |

GRAPEVINES

| | | Per | Per | Per |
|-------------------------------------|--------|--------|---------|----------|
| | Each | 10 | 100 | 1000 |
| Agawam (red), 2-yr., No. 1 | \$0.30 | \$2.00 | \$15.00 | \$125.00 |
| Agawam (red), 1-yr., No. 1 | | 1.75 | 12.00 | 100.00 |
| Brighton (red), 2-yr., No. 1 | | 2.00 | 15.00 | 125.00 |
| Brighton (red), 1-yr., No. 1 | | 1.75 | 12.00 | 100.00 |
| Caco (red), 2-yr., No .1 | | 2.00 | 15.00 | 125.00 |
| Caco (red), 1-yr., No. 1 | | 1.75 | 12.00 | 100.00 |
| Catawba (mahogany), 2-yr., No. 1 | | 2.00 | 15.00 | 125.00 |
| Catawba (mahogany), 1-yr., No. 1 | | 1.75 | 12.00 | 100.00 |
| Concord (blue), 2-yr., No. 1 | | 1.75 | 12.00 | 100.00 |
| Concord (blue), 1-yr., No. 1 | .20 | 1.50 | 9.00 | 80.00 |
| Delaware (red), 2-yr., No. 1 | | 2.25 | 18.00 | 150.00 |
| Delaware (red), I-yr., No. 1 | | 2.00 | 15.00 | 125.00 |
| Fredonia (black), 2-yr., No. 1 | | 2.00 | 15.00 | 125.00 |
| Fredonia (black), 1-yr., No. 1 | | 1.75 | 12.00 | 100.00 |
| Moore's Diamond (white), 2-yr., | | | | |
| No. 1 | .30 | 2.00 | 15.00 | 125.00 |
| Moore's Diamond (white), 1-yr., | | | | |
| No. 1 | 25 | 1.75 | 12.00 | 100.00 |
| Moore's Early (black), 2-yr., No. 1 | .30 | 2.00 | 15.00 | 125.00 |
| Moore's Early (black), 1-yr., No. I | .25 | 1.75 | 12.00 | 100.00 |
| Niagara (white), 2-yr., No. 1 | .30 | 2.00 | 15.00 | 125.00 |
| Niagara (white), I-yr., No. I | .25 | 1.75 | 12.00 | 100.00 |
| Portland (white), 2-yr., No. 1 | .30 | 2.25 | 18.00 | 150.00 |
| Portland (white), 1-yr., No. 1 | .25 | 2.00 | 15.00 | 120.00 |
| Worden (black), 2-yr., No .1 | .30 | 2.00 | 15.00 | 125.00 |
| Worden (black), I-yr., No. I | .25 | 1.75 | 12.00 | 100.00 |
| | | | | |

ASPARAGUS ROOTS

We are the largest growers of Asparagus roots in America. The continued increase in demand for our roots is ample proof of our customers' satisfaction. Our Asparagus has made a very good growth again this season, and test digging from various farms indicates the crowns will average better in quality than ever before.

MARY WASHINGTON ASPARAGUS

| | | | | Per | Per | Per | Per |
|--------|-----|---|-------|--------|--------|--------|---------|
| | | | | 25 | 100 | 250 | 1000 |
| 3-yr., | No. | 1 | grade | \$1.25 | \$4.00 | \$8.75 | \$30.00 |
| 2-yr., | No. | 1 | grade | 1.00 | 3.00 | 5.75 | 20.00 |
| 1-yr., | No. | 1 | grade | 75 | 2.50 | 4.25 | 14.00 |

Write for special prices on quantity lots of Asparagus, Strawberries or Grapes. We can quote even more attractive prices than those specified in this advertisement to buyers interested in large quantities.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery indicating you are entitled to trade prices.

BUNTINGS' NURSERIES, Inc.
Box 3 SELBYVILLE, DELAWARE



Place your order **now**, for this select stock for forcing later on. We'll ship **immediately** or reserve for **spring delivery**. Scientifically grown by "M-N" proved methods, these plants have unusually well developed root systems, are especially sturdy and will yield a wealth of blooms because they are more compact from correct pruning. Generously graded for size and priced to yield you a **big, big profit**.

YOU'LL WANT THESE FAVORITE VARIETIES

Albert & Elizabeth Avenir Blushing Bride Eric Schame Jean Hearrens Loelia Alba Mme. Alfred Sanders Mme. Charles Vuylsteke Mme. Petrick

Niobe
Orchidflora
Paul Schame
Perle de Saffelaire
Perle de Sweynaerde
Pink Pearl
Triomphe
Vervaeneana Alba
Vervaeneana Variegated

• PACKED FREE OF CHARGE

Priced F.O.B. Monrovia—Minimum Quantity 25 per Variety
2" 100 \$17.50 3" 100 \$30.00 4" 100 \$40.00

WRITE FOR OUR FREE CATALOG



P.O. BOX 196 • MONROVIA, CALIFORNIA

under pot culture, when grown in a mixture of leaf mold and sand (not the moss in which they grew in nature), and kept reasonably moist, they responded well, delighting us with a long blooming season and intriguing us in other ways throughout the year.

If one had suitable situations in the open, I can think of few more exciting rock garden plants than P. vulgaris. It produces an abundance of seeds, which would, no doubt, afford a ready means of increase. As my experiment did not extend that far, I am unable to say with certainty about that phase of its culture; I do know that it can be increased from the offsets which appear around the base of the bud.

Aquilegia Helenae.

A most satisfying performance of Aquilegia helenae in the garden last summer, after an absence of several years, prompts a few words in the plant's praise. In the first place, the behavior of hybrids is interesting and often unpredictable. Not often, though, do they produce a uniform lot of seedlings, as does A. helenae.

The origin of this beautiful columbine remains rather obscure so far as I have been able to determine. Some say it is the result of a cross between the Rocky Mountain columbine, A. coerulea, and the Japanese, A. flabellata; others claim that the central Asian, A. glandulosa, should be substituted for the Japanese; still others try to answer the puzzle by assigning it to variety hybrida or A. coerulea, which is a graceful way of saying, "I don't know."

Whatever the parentage may have been, the plant has a strong constitution, which it could scarcely have inherited from A. coerulea or A. glandulosa, making it adaptable to either sunny or partly shaded situations, and giving it a degree of beauty, including large blue and white flowers on 15-inch stalks, not often seen in such well behaved plants. Happily, too, it comes true from seeds; so one can produce it freely.

Androsace Culture.

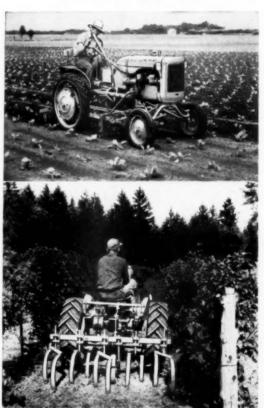
A new reader of the American Nurseryman asks how to manage the sarmentosa group of androsace in the middle west, to which the following brief reply is given.

The culture of this division of androsace calls for little, if any, special skill and not a great amount of bother. We found, after trial and error, that the plants did best here

[Continued on page 63.]



thrifty, with Work-Handling punch



Want a low-cost tractor with real work-handling punch? Then the Allis-Chalmers Model B is your answer. Big 125 cubic-inch engine, 20.6 drawbar horsepower... generous power built into a tractor that's small and compact enough to use in orchard, garden, nursery or barn lot. The Model B has power to get things done.

In addition to this power advantage the Model B delivers such features as: ample clearance for nearly every row crop; good crop vision because of torque-tube design and hug-the-ground stability for working on slopes, contours and in turning corners.

Where all these features really come into play is with the many matched implements available for the Model B...tools for every purpose... every major crop.

Where in the tractor world can you find a better tractor value?

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> Enjoy the National Farm and Home Hour — Every Saturday — NBC Network

Elect at Pittsburgh

By Louis E. Wissenbach, Secretary

A discussion on the cost of labor and a comparison of methods of charging customers for landscape work were features of the annual meeting of the Western Pennsylvania Nurserymen's Association, held December 5 at the Webster Hall hotel, Pittsburgh.

The following were elected officers and directors for the coming year:

President, Lawrence G. Wilson, Wilson Landscape Service, Butler; vice-president, Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh, and secretary, Frank Curto, superintendent of Phipp's conservatory, Schenley park, Pittsburgh; treasurer, Frank H. Brushmiller, Pittsburgh; directors: John M. Eisler, Eisler Nurseries, Butler; Herbert S. Hoechstetter, Hoechstetter's Nursery, Verona; Walter P. Morrow, Morrow's Tree Co., Sewickley; Homer Thornton, Thornton Nurseries, Conneaut Lake.

The afternoon session featured a general discussion of "Prices of Material and Labor, Markup and Discount," with Walter Morrow, Herbert Hoechstetter and John Eisler acting as leaders. The discussion brought out that the average cost of landscape labor in our area is \$1.25 to \$1.50 per hour, with foremen 25 to 50 cents higher. The current cost of labor runs as low as \$1.75 per hour, but the average is \$2 to \$2.40 per hour. Labor is very short, and most operators believe that the cost of labor will increase at least 15 to 20 cents per hour by spring.

Flat rate or contract versus time and material was discussed. Apparently much less trouble was encountered with the flat rate or contract method of charging. The customer generally liked to know what the job was going to cost, rather than just the cost of material plus the labor. The flat rate also eliminated any complaints that the bill was too high.

Stress was laid on signed orders and contracts, and nurserymen were advised to secure them for all sales, since this makes for better collections and less chance for arguments upon settlement of a bill. It was urged to make contracts and orders to both husband and wife. A surprising number of firms do not secure signed orders for any type of work.

Material costs and markup were discussed briefly. However, the average markup on plant material was fifty to 100 per cent, depending on cost of handling and type.

Carl S. Coler, Pittsburgh, recently returned from Korea, gave a talk on "Korea and Koreans." Mr. Coler illustrated his address with Kodachrome slides. The speaker described the highly agricultural nature of the Koreans. If we think our problems are heavy, we need only compare them with the Koreans' to know how well off we are.

Fred C. Foy, vice-president and general manager, Tar Products division, Koppers Co., spoke after dinner, and his talk, "Is Money Unlimited?" highlighted government spending and what every person can do about it.

IN MARCH, 1951, Ivan H. Smith started growing gladioli at Austell, Ga., and plans to sell them by mail.

LONG ISLAND MEETING.

Discussions of 1952 plans featured the annual meeting of the Long Island Nurserymen's Association, held at Rothmann's restaurant, East Norwich, N. Y., December 11.

Officers elected included Hewlett Lewis, Lewis & Valentine Nurseries, Roslyn, N. Y., president; David Bulk, Bulk's Nurseries, Babylon, N. Y., vice-president; Lloyd A. Weaver, the Wayside Gardens Co., Old Brookville, N. Y., secretary, and Frank Bon Giorno, Suburban Nursery, West Hempstead, N. Y., treasurer.

Elected as directors of the Long Island Horticultural Foundation, Inc., were, for one year: John Visser, Visser's Nurseries, Springfield Gardens, N. Y., and Mr. Lewis; for two years: Allan Dalsimer, Dalsimer, Inc., Cedarhurst, N. Y., and Mr. Bulk; for three years: Charles Ward, Ward's Nursery, Huntington, N. Y.

Mr. Weaver and Mr. Lewis were elected to the board of directors of the New York State Nurserymen's

Happy New Year!

And Thanks to our Friends in the Trade for Their Kind Patronage Throughout the Past Year

Your Satisfaction and Success Will Continue to be our Prime Objective in 1952

E. D. ROBINSON SALES AGENCY

38 South Elm St. "A Friendly Efficient Service" WALLINGFORD, CONN.

THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in rooted cuttings; also established stock from 21/4-in. pots.

Write for descriptive folder in color.

THE WESTMINSTER NURSERIES WESTMINSTER, MD.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr, transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

PENNSYLVANIA EVERGREEN SEEDLINGS

grown at High Altitude, in the heart of the ORIGINAL PENNSYLVANIA PINE FORESTS

| Per 100 | Per 1000 | Pe 100 | |
|---|-------------|---|-----------|
| Scotch Pine (Sylvestris), 2-0, 4 to 6 ins. \$2.50 | \$20.00 | Norway Spruce, 3-0, 6 to 10 ins\$ 5.0 | 0 \$40.00 |
| Scotch Pine (Sylvestris), 3-0, 8 to 12 ins. 3.50 | 30.00 | Colorado Blue Spruce, 2-0, 2 to 4 ins. 3.5 | |
| Scotch Pine (Riga), 2-0, 2 to 4 ins 2.50 | 15.00 | Colorado Blue Spruce, 3-0, 4 to 6 ins. 4.5 | 0 35.00 |
| Scotch Pine (Riga), 2-0, 4 to 8 ins 3.50 | 25.00 | Colorado Blue Spruce, 4-0, 6 to 10 ins. 5.5 | 0 45.00 |
| American Red Pine, 2-0, 2 to 4 ins 3.50 | 25.00 | Black Hills Spruce, 2-0, 3 to 5 ins 3.0 | 0 20.00 |
| American Red Pine, 3-0, 4 to 6 ins 4.00 | 30.00 | Black Hills Spruce, 2-0, 5 to 8 ins 4.0 | 0 30.00 |
| American Red Pine, 3-0, 6 to 9 ins 5.00 | 40.00 | White Spruce, 3-0, 3 to 6 ins 3.5 | 0 25.00 |
| American Red Pine, 4-0, 8 to 14 ins 6.00 | 50.00 | Engelmann Spruce, 2-0, 3 to 6 ins 4.0 | 0 30.00 |
| Japanese Red Pine, 2-0, 2 to 4 ins 2.50 | 15.00 | Balsam Fir, 4-0, 5 to 10 ins 6.0 | 0 50.00 |
| Japanese Red Pine, 2-0, 4 to 7 ins 3.50 | 25.00 | Douglas Fir, 2-0, 3 to 6 ins 3.5 | 0 25.00 |
| Japanese Red Pine, 3-0, 8 to 16 ins 4.00 | 30.00 | Japanese Larch, 3-0, 8 to 14 ins 3.0 | 0 25.00 |
| Austrian Pine, 2-0, 3 to 5 ins 4.00 | 30.00 | Japanese Larch, 3-0, 14 to 30 ins 5.0 | 0 35.00 |
| Ponderosa Pine, 2-0, 4 to 6 ins 4.00 | 30.00 | European Larch, 3-0, 15 to 30 ins 5.0 | 0 35.00 |
| White Pine, 2-0, 3 to 5 ins 3.50 | 25.00 | Hemlock (Canadian), 2-0, 3 to 6 ins 4.5 | 35.00 |
| White Pine, 4-0, 6 to 14 ins 6.00 | | Chestnut, blight-resistant, 1-0, | |
| Mugho Pine (Dwarf), 2-0, 2 to 3 ins 3.00 | 20.00 | 10 to 16 ins | 0 25c |
| Mugho Pine (Dwarf), 2-0, 3 to 5 ins 4.00 | 30.00 | | each in |
| Norway Spruce, 2-0, 3 to 6 ins 3.00 | 20.00 | | ots of 10 |
| Norway Spruce, 2-0, 6 to 9 ins 4.50 | 35.00 | Transplant listing will be sent on reque | st. |

We have for this season RIGA Strain Scotch Pine Seedlings. The best strain known for select and fastest-

5 per cent discount on 10,000 10 per cent discount on 25,000 20 per cent discount on 50,000 or more. Prices net.

growing CHRISTMAS TREES.

XUM

This discount applies to RIGA SCOTCH SEEDLINGS only.

Why not make a planting of Scotch this season?—it will pay you large dividends.

All stock offered subject to prior sale; all other seedlings or transplants, subject to 5 per cent discount on 25,000 or more.

SCHROTH'S NURSERY

INDIANA, PA.

- SEEDLINGS OF QUALITY -

Thousands Want New **MORAINE LOCUST TREE**

(Plant Patent No. 836)

Across the country thousands of nursery customers planted new Moraine Locust Trees during the past year. Many thousands more will plant in 1952. Interest in this great new shade tree is high and increasing each season. As a result, more and more nurserymen are stocking the Moraine Locust, Siebenthaler's new patented seedless, thornless variety.

(Many of the propagators are sold out for Spring, 1952, but are accepting orders for Fall, 1952, and Spring, 1953, deliverv.)



PRICES

| | ٧ | VHOL | ESALE | RETAI | L |
|------|----------|------|----------------|-----------|---------|
| | | | Lots of 100 | Each 1 | Lots of |
| 5/6' | whips | 2.25 | 2.00 | 5.00 | 4.50 |
| | branched | | | 6.00 | 5.50 |
| 6/7' | whips | 2.75 | 2.50 | 6.00 | 5.50 |
| 6/7' | branched | 3.50 | 3.25 | 8.00 | 7.25 |
| 7/8' | whips | 3.50 | 3.25 | 8.00 | 7.25 |
| 7/8 | branched | 4.50 | 4.25 | 10.00 | 9.00 |

The following are licensed propagators:

ANDREWS NURSERY COMPANY FARIBAULT, MINNESOTA

BAKER BROS. COMPANY FT. WORTH, TEXAS

C. R. BURR & CO., Inc. MANCHESTER, CONN.

THE COLE NURSERY COMPANY PAINESVILLE OHIO

THE GREENING NURSERY CO. MONROE, MICHIGAN

HILLENMEYER NURSERIES LEXINGTON, KENTUCKY

HINSDALE NURSERIES
HINSDALE, ILLINOIS

ILGENFRITZ NURSERIES, Inc.

JACKSON & PERKINS COMPANY NEWARK, NEW YORK

MARSHALL NURSERIES ARLINGTON, NEBRASKA

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MILTON NURSERY COMPANY MILTON, OREGON

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SNEED NURSERY COMPANY OKLAHOMA CITY I, OKLA.

THE WILLIS NURSERY COMPANY
OTTAWA, KANSAS

"MORAINE" is a registered trademark of the Siebenthaler Company.

THE Siebenthaler COMPANY

3001 CATALPA DRIVE * DAYTON 5, OHIO

Association, with Frank Williams, Bagatelle Nursery, Huntington Sta-tion, N. Y., and Walton Scherer, Northport Nurseries, Northport, N. Y., as alternates. Mr. Dalsimer and Mr. Visser were named delegates to the American Association of Nurserymen, with Charles Mouguin. Eugene Henri Mouquin, Inc., Glen Head, N. Y., and Mr. Scherer as alternates. President Lewis appointed Mr. Visser to represent the Long Island group on the executive committee of the A. A. N.

Stephen Roberts, chairman of the flower show committee, advised all members that the 1952 Long Island spring garden show would be held at

Hicks barn, Westbury.

Mr. Dalsimer, president of the Long Island Horticultural Foundation, Inc., outlined a program submitted by the board of directors recommending that the following nursery trials be carried out at the Long Island Agricultural and Technical Institute, Farmingdale:

1. Soil-fitting programs, to determine the effects and values of various soil-fitting practices, such as manures, green manures and sod crops, on the growth of nursery stock.

2. Fertilizer programs, to determine the effects and values of various kinds and amounts of fertilizers on the growth of nursery stock.

3. Mulch programs, to determine the value of mulching materials on nursery stock.

The foundation recommended that the budget for 1952 not exceed \$4,000. The program was unanimously accepted by the members.

New active members of the association accepted at the meeting were Hickory Hill Nursery, Northport; Wyandanch Nursery, Wyandanch; Parkway Nurseries, Town & Country Flowers, and John Groeneveld.

Lloyd A. Weaver, Sec'y.

LOCATED at 757 Fort Street, Victoria, B. C., Canada, a nursery known as the Shrubbery has recently been purchased by Rudolph and Gertrude Williams.

RECUPERATING at his home after several weeks of severe illness spent in an Atlanta hospital is W. E. Bowers, proprietor of Stone Mountain Gardens, Stone Mountain, Ga.

RETURNED from active service with the armed forces, Alan Levengood, formerly a partner in Ball Landscape Co., has started Levengood's Landscaping Service, 25 East Fourth street, Pottstown, Pa., where he will specialize in tree surgery.







STRONGER, MORE PRACTICAL from every angle, Nu-Wrinkl Pyramids give garden stores, nurseries, and mail order seed houses a big new opportunity for profit.

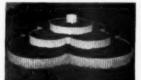
opportunity for profit.

Nu-Wrinkl Pyramids are made of corrugated, galvanized steel of spring-like temper... will not bend or crush when stepped on. They stand abuse better, are not damaged in shipping, and last for years.

The individual steel strips are 6 inches deep by 26 inches long which overlap and fasten together with special steel clips. Assembly is simple and fast. Three planting tiers with a bottom diameter of 6½ feet. Eight-inch watering well at the top. With nearly 20% more planting area than other more expensive units, Nu-Wrinkl Pyramids hold up to 100 everbearing strawberry plants.

Planting pyramids have proved a fast-selling, profitable item for many growers and retailers. Cash in on this booming demand with this sturdier pyramid. Suggested selling price of \$7.95 allows you a generous margin of profit. Each kit is securely and compactly bundled... occupies space only 26" x 6" x 2".

NU-WRINKL PLANTING TERRACES for larger beds of berries or flowers



Made of same corrugated steel material as above, but includes steel anchors to give scalloped design. Any number of basic kits can be combined for larger beds, in scores of unusual designs. Can also be used to terrace "problem" banks and corners. Nu-Wrinkl Planting Terrace is a new product with big prospects for high profits. Design illustrated can be built with one kit of materials. Suggested retail price—\$9.95.

Made of sturdy, galvanized steel. Easy to assemble —



New improved varieties are boosting the popularity of everbearing strawberries for home gardens. Nearly every home, even those on small city lots can enjoy fresh home-grown strawberries with a Nu-Wrinkl Pyramid. Requires space only 6½ feet in diameter. Nu-Wrinkl Pyramids are easy to weed, water, fertilize, and protect from frost. Berries stay cleaner... are easier to pick. You'll sell more strawberry plants by selling Nu-Wrinkl Pyramids to plant them in and make a good profit on both plants and Pyramids!

Write for prices and discounts.

Distributors and dealers wanted.

Made by the manufacturer of NU-WRINKL Lawn Edging and NU-WRINKL Compost Bins

NU-WRINK Products

KEELOR STEEL, INC.

MINNEAPOLIS 14, MINNESOTA

This Business of Ours

Reflections on the Progress and Problems of Nurserymen By E. Sam Hemming

MORE ON SOWING GRASS.

Some time ago I mentioned the method the Maryland state roads commission used in germinating grass seeds on the shoulders and banks of the miles and miles of new highways. Much of this is done off season, both summer and winter, and to facilitate germination the area is shaded with hav mulch, which until recently was held in place by staked and crisscrossed string or twine.

For the past six months they have been using a new system, which, much to my surprise, consists of spraying a generous application of tar over the hay to keep it from blowing or washing away. I have been still more surprised to see that the grass does germinate in spite of the amount of tar that soaks through to the ground. What would our customers say if we used that system?

ON FUNGICIDES.

The July-September, 1951, issue of the Contributions from Boyce Thompson Institute is devoted entirely to recent work on fungicides. Most of the articles are highly technical papers on chemical experimentation and are of interest only to the professional chemist and plant pathologist and not to nurserymen. There is one article, by R. H. Wellman, entitled "The Economics of Using Fungicides," which contains a number of interesting comments and figures that are applicable to us and our business.

He states, for instance, that the annual loss due to fungus diseases amounts to one and three-quarters billion dollars in spite of the use of fungicides, and if no fungicides were used the loss would be over four billion dollars. Fungicides permit us to grow at least a billion dollars' worth of apple, potato, grape and cherry crops that could not otherwise be grown and, in addition, give us increased yields of another bil-lion dollars. Some of these crops directly concern us, and from these figures we can gather the importance of fungicides to ourselves and to the orchardist who buys our trees. It is Mr. Wellman's estimate that the saving of a billion dollars in crops is done with \$50,000,000 worth of

materials, equipment and labor, which is sound economics.

Another interesting angle and one which we should keep in mind when we get tired, busy or careless is that the increase in yield in any crop due to the best use of fungicides is really all profit. If your crop is increased by the use of better types or increased amounts of fungicides, the only additional cost is for the fungicide and any additional harvesting. After all, you have already done the planting, fertilizing, cultivating and other standard practices. A four per cent increase in yield can mean an actual profit increase of more than that. Conversely, if your profit is ten or fifteen per cent, a reduction in yield can soon wipe out all the profit and leave you nothing but costs.

E. S. H.

OWNER of four acres at 27201 Van Born road, Inkster, Mich., Harold Mason is starting Mason's Nurs-

ARBORETUM HEAD RETIRES.

Benjamin Y. Morrison, plant breeder, explorer and landscape architect associated with the Na-Arboretum, Washington, tional D. C., since its inception and for many years its director, has retired from the United States Department of Agriculture. He will continue as a consultant on the arboretum's staff.

Mr. Morrison has been with the U. S. D. A. since 1920. He served as head of the division of plant exploration and introduction from 1934 to 1948 and was in charge of the National Arboretum from 1937 until his retirement. He conceived the master plan for present and future plantings of the arboretum.

Ornamental plantings for the arboretum serve as a monument to Mr. Morrison's work. They include eight acres of hybrid azaleas created by him and his associates at the plant introduction garden, Glenn Dale, Md. In retirement, Mr. Morrison, a native of Atlanta, Ga., expects to spend much time breeding superior hardy azaleas for the south in his nursery at Pass Christian, Miss.

A NEW nursery certificate has been issued to John Koelbel, Route 9, Box 566, Lemay 23, Mo.

SHADE TREE SPECIALS

| | Per 10 | Per 100 |
|---------------------------------------|---------|----------|
| Bolleana Poplar, 11/4 to 11/2-in. cal | \$17.50 | \$160.00 |
| Bolleana Poplar, 11/2 to 2 -in. cal. | 20.00 | 185.00 |
| Bolleana Poplar, 2 to 21/2-in, cal. | 22.50 | 200.00 |
| Lombardy Poplar, 6 to 8 ft | 4.00 | 35.00 |
| Niobe Weeping Willow, 5 to 6 ft | 6.00 | 55.00 |
| Niobe Weeping Willow, 6 to 8 ft | 8.50 | 80.00 |
| Niobe Weeping Willow, 8 to 10 ft | 11.00 | 100.00 |
| Wisconsin Weeping Willow, 5 to 6 ft. | 6.00 | 55.00 |
| Wisconsin Weeping Willow, 6 to 8 ft | 8.50 | 80.00 |
| White Elm, 5 to 6 ft | | 60.00 |
| White Elm, 6 to 8 ft | 8.50 | 80.00 |
| French Pussy Willow, 4 to 5 ft | 5.50 | 50.00 |
| French Pussey Willow 5 to 6 ft | 7.00 | 65.00 |

FLOWERING SHRUB SPECIALS

| Hydrangea P. G., I Hydrangea P. G., I | 12 to 18 ins | | | ********** | 3.20 28.00 4.20 38.00 |
|--|--------------|--------------|-----------|-----------------------------|--------------------------|
| Ivarangea P. G., | 10 to 24 ins | *********** | | * * * * * * * * * * * * * * | 4.20 38.00 |
| ivdrangea P. G., 2 | | | | | |
| Ivdrangea P. G., 3 | | | | | |
| nowball, 18 to 24 | ins | | | | 4.50 40.00 |
| nowball, 2 to 3 ft | | | | | 5.50 50.00 |
| Snowball, 3 to 4 ft. | | | | | |
| We also grow F | ruit Trees, | Shade Trees, | Flowering | Shrubs, Hard | Phlox, Bleeding |

Hearts, Lining-out Evergreens and deciduous stock. Write for complete new wholesale-trade list.

SHERMAN NURSERY CO.

CHARLES CITY, IOWA

TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.



EVERGREENS SHADE TREES SHRUBS, VINES **HEDGE PLANTS, etc.**

In good assortment.

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SANTA ANA. CALIFORNIA

WEEKS

MEMBER: CALIFORNIA ASS'N NURSERYMEN AMERICAN ASS'N OF NURSERYMEN

WHOLESALE ROSE GROWER BUSHES - CLIMBERS - TREE ROSES

January 1, 1952

An Open Letter

There is no better way to start a New Year than to thank each and everyone of you - our friends and customers - for the year just closing. Without "you" there would be no "us". You have been swell! We appreciate your business and are grateful for your understanding and cooperation in difficult times and for your generous acknowledgement of your satisfaction when the job has been well done.

We will strive during the coming year to bring you better plants and better service and earnestly solicit your reprimand for failures so we may learn and profit thereby. Like the child in school, it pleases us, too, to know we have pleased you.

We hope time and circumstance will provide us the pleasure of seeing many of you again this year and meeting others for the first time.

May 1952 be especially good to you and yours.

Sincerely,

WEEKS WHOLESALE ROSE GROWER



Coming Events

MEETING CALENDAR.

January 2 to 4, eastern regional convention, Hotel New Yorker, New York.
January 7, Missouri State Nurserymen's
Association, Hotel Muehlebach, Kansas

January 7, Kansas Association of Nurs-erymen, Town House hotel, Kansas City,

January 7 and 8, Oklahoma State Nurs-Association, Biltmore hotel, Oklahoma City.

January 7 to 9, American Pomological Society, Hotel Roanoke, Roanoke, Va.

January 7 to 18, short course for nurs-rymen, Virginia Polytechnic Institute, Blacksburg.

January 8, Massachusetts Nurserymen's Association, Hotel Kenmore, Boston.

January 8 and 9, Western Association of Nurserymen, Hotel Muehlebach, Kansas

January 8 to 10, North Carolina Asso-ciation of Nurserymen, North Carolina

ciation of Nurserymen, North Carolina State College, Raleigh.

January 8 to 10, Indiana Association of Nurserymen, Purdue University Student Union Building, West Lafayette.

January 10, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 10, Maryland Nurserymen's Association, Emerson hotel, Baltimore.

January 10 to 12, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines, January 13 and 14, American Association, Indiangle 14, American Associa-

January 13 and 14, American Associa-tion of Nurserymen board of directors,

Hotel La Salle, Chicago.

January 14, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 14, National Mail Order Nurserymen's Association, Hotel LaSalle, Chi-

January 14, All-America Rose Selections, Hotel La Salle, Chicago.

January 14 and 15, arborists' school,

Cornell University, Ithaca, N. Y.
January 14 and 15, New York Arborists' Association, Cornell University,

Ithaca, N. Y.
January 15 to 17, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 21 to 23, short course for arborists, landscape gardeners and nurserymen,

Neil House, Columbus, O. January 22 and 23, Kentucky State Nurserymen's Association, Lafayette hotel, Lexington.

tel, Lexington.
January 23 to 25, Ohio Nurserymen's
Association, Neil House, Columbus.
January 24 and 25, Canadian Association of Nurserymen, Royal York hotel, Toronto, Ont.

January 25, Western New York Nurs-erymen's Association, Hotel Sheraton, Rochester.

January 27 to 29, Virginia Nurser men's Association, Hotel John Marshall, Richmond.

January 30 and 31, Pennsylvania Nurs-Association, Warwick hotel, erymen's Philadelphia.

January 30 and 31, Oregon Association of Nurserymen, Heathman hotel, Portland.

January 30 to February 1, Tennessee State Nurserymen's Assocation, Hotel An-

drew Jackson, Nashville. January 30 to February 1, Michigan Association of Nurserymen, Hotel Statler,

January 31, New Jersey Association of Nurserymen, Hildebrecht hotel, Trenton. February 4 to 6, New England Nurs-erymen's Association, Hotel Kenmore, Boston, Mass.

February 13 to 15, Midwestern chapter of the National Shade Tree Conference,

Hotel La Salle, Chicago.

February 19 to 21, nursery conference, Pennsylvania State College, State College. February 20, Rhode Island Nursery-men's Association, Johnson's Hummocks

grill, Providence.

March 20 to 22, American Camellia Society, Cavalier hotel, Virginia Beach,

March 28 and 29, Southern Shade Tree Conference, Hotel John Marshall, Richmond, Va.

KANSAS WINTER MEETING.

The winter meeting of the Kansas Association of Nurserymen, to be held January 7 at the Town House hotel, Kansas City, Kan., will open at 10 a. m. with a talk by Harry W. Woods, organization service director, state chamber of commerce, Topeka, on "Building a Better Kansas."

Dr. William F. Pickett, head of the department of horticulture at Kansas State College, Manhattan, will discuss "Developments in Plant Research," followed by the reports of committee chairmen. Guest speaker at the luncheon will be Harry Darby, former United States senator. A business meeting of the Kansas chapter of the American Association of Nurserymen will be held in the afternoon.

CHINESE CHESTNUTS

Hemming Strain of Heavy-bearing Trees.

Blight-resistant.

Per Per Per 12 to 10 100 1000 18 ins. .\$2.50 \$22.50 \$200.00 18 to

24 ins. . 3.50 32.50 300.00

EASTERN SHORE NURSERIES, Inc. EASTON, MARYLAND

TAXUS LINERS

Taxus Cuspidata, Spreading Igpanese Yew.

8 to 12 inches, twice transplanted. \$50.00 per 100.

per cent discount on orders of \$75.00 or more. Free packing. Cash, please

BROOKFIELD GARDENS

DELAWARE, N. J.

Social rooms will be open for the ladies not caring to attend business sessions. Kansas nurserymen and their wives have also been invited to an afternoon fellowship hour and cocktail party at the Muehlebach hotel, Kansas City, Mo., where co-hosts will be the Missouri State Nurserymen's Association and the Kansas City Association of Nursery-

IOWA WINTER MEETING.

A round-table discussion of machinery, sales and other problems affecting retail nurseries will be featured at the opening session Thursday afternoon, January 10, of the winter meeting of the Iowa Nurserymen's Association, to be held January 10 to 12 at the Hotel Kirkwood, Des Moines.

A meeting of the Iowa chapter of the American Association of Nurservmen will be held Friday morning, followed by an address by Dr. E. S. Haber, head of the department of horticulture at Iowa State College, Ames, on "New Plant Originations by Iowa State College." Dr. E. L. Dennison, department of research, Iowa State College, will discuss "Strawberry Culture." A short business meeting will also be held before

At the afternoon session, "The Affairs of the American Association of Nurserymen" will be discussed by Richard P. White, executive secretary of the A. A. N.; Kenneth Law, Lake City, Minn., chairman of the

PHILADELPHUS VIRGINALIS

3-year transplants, heavy, with 8 to 15 canes.

Per 10 Per 100 Per 1000 18 to 24 ins...\$4.00 \$27.50 \$225.00 2 to 3 ft.... 5.00 35.00 300.00 3 to 4 ft.... 6.00 45.00 400.00 6 to 10 ins., R.C. . . . 10 to 15-ins., R.C. . . 7.00 50.00 10.00 80.00

FAIRVIEW EVERGREEN NURSERIES

FAIRVIEW, Erie Co., PA.

LILACS

On own roots. Large plants, 5 ft. and up. Charles X. William Robinson,

Pres. Grevy, Leon Gambetta, etc. To plant nov AMERICAN ARBORVITAE, 10 ft.

An assortment of heavy stock

for landscaping. RED LAKE RED CURRANTS, 2-yr. No. 1

SAMUEL FRASER NURSERY GENESEO, N. Y.

A. A. N. legislative committee, and Vernon Marshall, Arlington, Neb., executive committee member for A. A. N., region 4. Mrs. C. F. Whiting, Mapleton, Ia., will offer an illustrated lecture on "New Varieties of Iris, Oriental Poppies and Lilies."

Other afternoon speakers will be Kimball D. Andrews, Andrews Nursery Co., Faribault, Minn., on "Shipping by Weather Zones," and Dr. John P. Mahlstede, professor of horticulture at Iowa State College, on "Chemical Weed Control in the Nursery." The annual dinner that evening will feature a guest speaker, entertainment and the presentation of awards.

Saturday morning, Dr. Donald Wyman, horticulturist at Arnold Arboretum, Harvard University, Jamaica Plain, Mass., will present an illustrated talk on "New Shrubs and Trees," and Dr. H. M. Harris, head of the department of zoology and entomology at Iowa State College, will discuss "Legislation and Quarantines Affecting Shipment of Nursery Stock." A business meeting will conclude the activities.

MAIL ORDER MEN PLAN.

The winter meeting of the National Mail Order Nurserymen's Association will be held January 14 at Hotel La Salle, Chicago, in connection with the meeting of the Illinois State Nurserymen's Association. As is the usual procedure, it will be devoted to urgent business which has developed since the meeting in August

Topics scheduled for discussion include the reports of regional vice-presidents on nursery stock and general business conditions, a review of revised postal laws and their effect on mail-order nurserymen and a discussion of pool purchases of nursery supplies. Brief reports will be given by John B. Wight, president of the American Association of Nurserymen, and Richard P. White, executive secretary of the A. A. N.

OKLAHOMA PROGRAM.

Discussions of current problems will feature the meeting of the Oklahoma Nurserymen's Association to be held January 7 and 8 at the Biltmore hotel, Oklahoma City.

An address by association President Mario Sanseverino will highlight the morning session of January 7. A guest will speak at the luncheon that day, with Mr. Sanseverino returning in the afternoon to discuss the progress of the "Plant America" campaign. The afternoon program

LINERS

| Acer dasycarpum (Soft or Silver Maple). 18 to 24 inches | \$ 3.50 | Per 1000 \$ 30.00 20.00 |
|--|---------|-------------------------------|
| 12 to 18 inches | 40.40 | 20.00 |
| Charming, R.C., out of flats | 10.00 | 75.00 |
| Dubonnet, R.C., out of flats | 10.00 | 75.00 |
| Floralart, R.C., out of flats | | 75.00 |
| Red, R.C., out of flats | 10.00 | 75.00 |
| White Cloud, R.C., out of flats | | 75.00 |
| Calligarna dishatama (Romety-house) | | 75.00 |
| 2-inch pots | 12 50 | 100.00 |
| Celastrus scandens (American Bittersweet). | 12.00 | 100.00 |
| 2-inch pots | 12.00 | 100.00 |
| Clematis coccinea. | 12.00 | 100.00 |
| 3-inch pots | 25.00 | |
| Clematis paniculata. | 20.00 | **** |
| | 6.50 | 60.00 |
| 2-year seedlings | 6.30 | 60.00 |
| Euonymus fortunei minimus (Baby Euonymus). | 05.00 | |
| 3-inch pots | | * * * * |
| 2-inch pots | 20.00 | **** |
| Juglans nigra (Black Walnut). | 0.00 | 00.00 |
| 12 to 18 inches | | 30.00 |
| 6 to 12 inches | 2.50 | 20.00 |
| Juniperus chinensis, Pfitzer. | | |
| 21/4-inch pots | 20.00 | **** |
| Juniperus glauca hetzi. | | |
| 2-inch pots | 20.00 | **** |
| Juniperus horizontalis plumosa (Andorra Juniper). | | |
| 21/4-inch pots | 25.00 | **** |
| Lonicera syringantha (Lilac Honeysuckle). | | |
| Rooted cuttings, from soil beds | 10.00 | 75.00 |
| Lonicera vunnanensis. | | |
| 2-inch pots | 20.00 | |
| Morus tatarica (Russian Mulberry). | | |
| 18 to 24 inches | 3.50 | 30.00 |
| 12 to 18 inches | | 20.00 |
| 6 to 12 inches | 1.70 | 14.00 |
| Penstemon Garnet. | | |
| 2-inch pots | 18.00 | |
| Phlox divaricata. | | |
| 2-inch pots | 12.00 | |
| 2-inch pots | | |
| 18 to 24 inches | 3.90 | 25.00 |
| 12 to 18 inches | 2.50 | 20.00 |
| Rosa multiflora japonica, | | |
| 2/16 to 3/16-inch | 3.50 | 30.00 |
| Salix mutabilis. Low-growing recumbent shrub with yellow | N- | |
| ish-green twigs; leaves about 11/2 inches long. An interes | t- | |
| ing novelty from the Tyrol. 2-inch pots | 12.50 | 100.00 |
| Sedum sieboldi. | | |
| 2-inch pots | 16.00 | |
| Ulmus pumila (Chinese Elm). | 20100 | |
| 3 to 4 feet | 6.00 | 50.00 |
| 2 to 3 feet | 4.00 | 35.00 |
| 18 to 24 inches | 3.00 | 25.00 |
| 12 to 18 inches | 2.50 | 20.00 |
| 6 to 12 inches. | 1.70 | 14.00 |
| 0 to 12 menes | 1.70 | 14.00 |
| DEDENINIAL C Vou should be | un IL | less |
| PERENNIALS—You should ha | ve in | EZE! |
| Dicentra spectabilis (Bleeding Heart). | | Per 100 |
| 3 to 5 ove | | \$40.00 |
| 3 to 5-eye | 0.10 | 10.00 |

| Dicentra spectabilis (Bleeding Heart). | Per IU | Per IUU |
|--|--------|---------|
| 3 to 5-eye | \$4.50 | \$40.00 |
| Iris kaempferi | | 18.00 |
| Ben Chadai. Double dark mahogany-purple. | | |
| Kagari-bi (Torchlight). Six petals, light wine-red. | | |
| Koko-no-iro. Violet-purple, golden throat. | | |
| Momyi-no-taki. Double, deep royal-red. | | |
| Patrocle. Huge, single, dark violet. | | |
| Purple and Gold. Double, rich purple, gold throat. | | |
| Mallow Marvel (Hibiscus syriacus). Dinner-plate size | d | |
| flowers. Mixed red, pink and white | | 10.00 |
| Phlox (paniculata) Dixie. Especially developed for high | h | |
| temperature and drought areas. Bright orchid-pink, large | | |
| heads | | 15.00 |
| We offer a complete assortment of nursery stoc | | |

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"Your Wholesale Nurserymen"
OTTAWA, KANSAS

LINING-OUT STOCK

SPRING

| Write for our illustrated list. | |
|--|----------|
| Per 100 | Per 1000 |
| Colorado Blue Spruce, 2-2, 6 to 12 ins\$25.00 | **** |
| Colorado Blue Spruce, 2-2, 6 to 9 ins | \$150.00 |
| Above grades from separate beds. | |
| Colorado Blue Spruce, 2-2, 4 to 6 ins 10.00 | 80.00 |
| Norway Spruce, 3-2, 4 to 8 ins 7.00 | 50.00 |
| Black Hills Spruce, 3-2, 6 to 9 ins | 140.00 |
| Black Hills Spruce, 3-2, 4 to 6 ins | 75.00 |
| White Spruce, 3-2, 4 to 8 ins 6.00 | 45.00 |
| Mugho Pine, 2-2, bed run | 80.00 |
| White Pine, 2-2, 3 to 8 ins 10.00 | 85.00 |
| Ponderosa Pine, 3-0, 6 to 12 ins 8.50 | 65.00 |
| Norway Pine. 2-0, bed run 5.00 | 30.00 |
| Banks Pine, 2-0, bed run | 20.00 |
| American Arborvitae, 2-2, 4 to 8 ins | 40.00 |
| American Arborvitae, 2-0, 2 to 6 ins 4.00 | 20.00 |
| Douglas Fir, 2-2, 6 to 10 ins 9.00 | 75.00 |
| Douglas Fir, 3-0, 3 to 6 ins. (Snowy Mt. variety) 6.00 | 35.00 |
| | |

SCOTCH PINE SEEDLINGS

| Best varieties for growing Christmas Trees. | Per 100 | \$2.00 | \$1.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$30.00 | \$

25,000 or more, \$12.50 per 1000.

Free samples when digging conditions permit.

TERMS: Cash with order, or 25 per cent deposit for Spring shipment. 25 at $100 \, \text{rate}$; $250 \, \text{at} \, 1000 \, \text{rate}$. Not less than $50 \, \text{of}$ any seedlings. Minimum order, \$10.00.

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Wholesale Nurserymen Since 1922

PRIVET and BERBERIS

Splendid Stock
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LESTER C. LOVETT
MILFORD DELAWARE

will also include reports on business and growing conditions. The day's activities will end with a buffet dinner at 7 p. m.

On January 8, Dr. Frank Cross, Oklahoma A. and M. College, Stillwater, will talk on the cooperation of nurserymen with the Great Plains Agricultural Council. Election of officers will complete the 2day meeting.

VIRGINIA SHORT COURSE.

An 11-day intensive course for nurserymen and their employees will be conducted by the Virginia Polytechnic Institute, Blacksburg, January 7 to 18.

Emphasis during the first part of the course will be on landscape design, drafting, sketching and the study of plant material, as well as other subjects requested by those planning to attend the course. There will be a section for beginners and one for advanced students.

The second part of the course will be a nursery forum, to be held on the final two days. A program of general interest to all nurserymen will be arranged, the forum being prepared especially for nurserymen who cannot take the time to attend the full course. Landscape plans prepared by the nurserymen during the first part of the course will be exhibited, and time will be allotted for a general discussion.

Registration for the course will be limited to a small number, so that individual instruction can be given and so that students during the laboratory periods may select individual problems that fit their particular needs.

VIRGINIA CONVENTION.

The theme of the annual convention of the Virginia Nurserymen's Association, to be held January 27 to 29 at Hotel John Marshall, Richmond, will be "Plant Virginia— 'Plant America.' "A cocktail hour Sunday evening, January 27, will open the meeting.

Business sessions will begin Monday morning with an address by President Sam Tankard. A film, entitled "Modern Controlled Irrigation," will be shown by Chester A. Olson, Washington, D. C., through the courtesy of W. R. Ames Co. Mr. Olson will lead a discussion of irrigation methods.

The afternoon session will open with an illustrated lecture on "Williamsburg Gardens," followed by a discussion of "Modern Propagation

Grafted Stock

For Spring, 1952, Delivery

| Pei | r 10 | Per 100 | Pe | er 10 | Per 100 |
|--|------|---------|---|-------|---------|
| Acer palmatum atropurpureum\$7 | 7.50 | \$65.00 | Juniperus virginiana schotti\$ | 5.50 | \$45.00 |
| Acer palmatum dissectum atropurpureum 7 | .50 | 65.00 | Juniperus virginiana pyramidiformis hilli | 5.50 | 45.00 |
| Cornus florida alba plena | .50 | 45.00 | Juniperus sabina Von Ehron | 5.50 | 45.00 |
| Cornus florida rubra 5 | 5.50 | 45.00 | Magnolia soulangeana | | 60.00 |
| Cornus florida rubra Prosser | .50 | 65.00 | Magnolia soulangeana nigra | | 60.00 |
| Fagus sylvatica riversi | .50 | 65.00 | Magnolia stellata 7 | 7.00 | 60.00 |
| Ilex opaca femina | .50 | 45.00 | Magnolia rustica rubra | 7.50 | 65.00 |
| Juniperus chinensis columnaris glauca 5 | .50 | 45.00 | Thuja occidentalis douglasi spiralis 5 | 5.00 | 40.00 |
| Juniperus chinensis columnaris viridis 5 | .50 | 45.00 | Thuja occidentalis elegantissima 5 | 5.00 | 40.00 |
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| Juniperus chinensis sargenti 5. | .05 | 45.00 | | 5.00 | 40.00 |
| Juniperus chinensis sargenti glauca 5. | .50 | 45.00 | Thuja occidentalis pyramidalis 5 | 5.00 | 40.00 |
| Juniperus squamata meyeri 5. | .50 | 45.00 | | 5.00 | 40.00 |
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| Juniperus virginiana elegantissima 5. | .00 | 45.00 | Thuja orientalis conspicua 5 | 5.00 | 40.00 |
| Juniperus virginiana glauca 5. | .50 | 45.00 | Thuja orientalis elegantissima | 5.00 | 40.00 |
| Juniperus virginiana kosteriana 5. | .50 | 45.00 | Tsuga canadensis pendula | 5.00 | 50.00 |

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MOUNTAIN VIEW, N. J.

Methods," by James S. Wells, Koster Nursery, Bridgeton, N. J. Guest speaker at the past president's banquet in the evening will be Warren Foster, Coca-Cola Co., Atlanta, Ga.

Election of officers and a discussion of current nursery problems will take place Tuesday morning. The luncheon speaker will be Prof. H. B. Owens, head of the department of landscape architecture, University of Georgia, Athens, on "Planting Design."

INDIANA CONFERENCE.

The annual winter conference to be held at Purdue University, Lafayette, Ind., January 8 to 11, cosponsored by the Indiana Association of Nurserymen and the Indiana Arborists' Association, will open officially Tuesday afternoon, January 9, and will include addresses by Prof. Earl A. McIntyre, Michigan State College, East Lansing, on "Advertising in the Nursery Business"; Harold Hicks, Cottage Gardens, Lansing, Mich., on "Keeping Nursery Records," and Harold Timmer, Lafayette Landscape Co., Lafayette, Ind., on "Notes on the Nursery Survey."

The Wednesday morning session will open with a talk on "Merchandising Plants in Pots," by Kenneth

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Cotoneaster Divaricata Euonymus Vegetus Ilex Convexa (cuttings) Taxus Cuspidata (spreading) Taxus Hatfieldi

One-year Transplants in:

Forsythia Spring Glory (new) Juniperus Hetzi Juniperus Meyeri Kolkwitzia Amabilis (Beauty Bush), branched, 12 to 18 ins.

Magnolia Soulangeana (grown from cuttings) One-year Seedlings in: Cornus Florida (white) 12 to 15 ins.

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Haysler, Cloverset Flower Farm, Kansas City, Mo. Also scheduled to speak are Marguerite Smith, garden editor, Indianapolis Times, on the topic, "Over the Garden Fence," and R. B. Hull, professor of landscape architecture at Purdue University. who will show colored slides on "Man and His Surroundings."

H. J. Schnitzius, New Augusta Nursery, New Augusta, Ind., will open the afternoon session with a talk on "Perennial Possibilities," followed by a panel discussion of nursery equipment. Participating in the discussion will be five Indiana nurserymen: Frank Littleford, Littleford Nurseries, Vincennes; Devol Ernst, Ernst Nurseries, Inc., Muncie; Harold Bohling, Bohling's Nursery, Munster; H. N. Engledow, Engle-dow's Tree & Landscape Service, Indianapolis, and Robert Simpson, of the Robert Simpson Orchards, Vincennes. Later in the afternoon, William E. Lyons, Akron, O., will talk on turf. The annual banquet will be held Wednesday evening in the North ballroom of the Purdue Union building.

Thursday morning, nurserymen will hear an address on "The Evaluation of Flowering Crabs," by Prof. John C. Wister, Swarthmore College, Swarthmore, Pa., after which a business meeting will be held. The arborists' program will begin in the afternoon with a welcome by T. F. Gilbert, Superior Tree Co., Muncie. Topics for discussion are "Insects and Insecticides Used for Their Control on Ornamentals," by Ralph B. Neiswander, Ohio agricultural experiment station, Wooster, and "Foliar Application of Nutrients." by C. L. Porter, Purdue University. A panel discussion on 2,4-D injury will be presented by O. C. Lee, Purdue University; O. G. Ottinger, Muncie Tree Surgery, Muncie, Ind.; T. F. Gilbert, Superior Tree Co., Muncie, and George Fiel, landscape contractor. In the evening, there will be

an informal get-together. L. L. Coulter, Dow Chemical Co., Midland, Mich., will talk Friday morning on "Year-round Chemical Brush Control," followed by Russell R. Whitten, of the bureau of entomology and plant quarantine, United States Department of Agriculture, who will describe experimental work being done on Dutch elm disease, phloem necrosis and the control of mites and aphis in the DDT spray program. "Public Relations in the Arborists' Field" will be discussed by Paul E. Tilford, representative of the U. S. D. A.

The program for the ladies will in-

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| | | | same | | | | | | | | | | | |
| 4 | to | 8 | ins. | | | | | | | | | | 4.00 | 25.00 |
| 8 | to | 12 | ins. | | | | | * | * | | | * | 8.00 | 60.00 |
| Thu | ıja | oci | ciden | ŧ | al | is | i. | | | | | | | |
| 6 | to | 9 | ing. | | | | | | | | | | 4.00 | 25.00 |
| | | | ins. | | | | | | | | | | 5.00 | 40.00 |
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| | | | ins. | | | | | | | | | | 6.00 | 50.00 |

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| Thuja occidentalis | IIIAII | OI LAI | 110 |
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| 6 to 9-in. trans., 9 to 12-in. trans., | | | 75.00 100.00 |
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clude a tea Tuesday afternoon at Tippecanoe County Historical Museum; a visit Wednesday afternoon to the horticultural greenhouse on the Purdue campus, where R. G. Beach will talk on "Let's Arrange Flowers," and a book review Thursday afternoon by Mrs. N. M. Parkhurst.

MARYLAND PROGRAM.

The annual meeting of the Maryland Nurserymen's Association will open at 10 a. m. January 10 at the Emerson hotel, Baltimore, with an address by President Raymond Bunting.

Other speakers at the morning session will be Howard P. Quadland, publicity director, American Association of Nurserymen, on "Plant America"; Edward T. Ellis, assistant sales manager, national tea sales, McCormick & Co., Baltimore, on "Human Relations in Business," and James I. Hambleton, bee culture laboratory, United States Department of Agriculture, Beltsville, Md., on "Bees and Other Beneficial Insects in Ornamental Horticulture."

Speaker at the luncheon banquet will be Henry J. Hohman, Kingsville Nurseries, Kingsville, Md. A short address will be given by Dr. H. C. Byrd, president of the Univer-

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Red-flowering Dogwood, 6 to 10 ins., grafts (1-yr.)....\$60.00

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|---|-----|
| Eac | h |
| 100 Upright Red Cydonia Japonica, | |
| 3½ to 4 ft | .0 |
| 100 New Red Bush Honeysuckle, | 9 |
| 3 to 4 ft | 0 |
| 3 to 4 ft | 0 |
| 100 Philadelphus Grandiflorus, | _ |
| 4 to 5 ft | |
| 100 Deutzia Gracilis, 18 to 24 ins5 | |
| 100 Deutzia Lemoinel, 21/2 to 3 ft5 | |
| 50 Red Barberry, 24 ins | U |
| 100 Specimen Douglas Fir, 3½ to 4 ft | in. |
| 100 Specimen Pyramidal Arborvitae, | |
| 6 to 61/2 ft 6.5 | 0 |
| 75 Specimen Pyramidal Arborvitae, | |
| 5 to 6 ft | 0 |
| 40 Specimen Dundee Juniper, | _ |
| 6 to 7 ft 9.7 | Э |
| 10 Juniperus Chinensis Columnaris, | |
| 6 to 7 ft | O |
| Juniperus Chinensis, | |
| 4 to 5 ft | 15 |
| 150 Specimen Juniperus Fastigiata, | |
| 4 ft 2.0 | e e |
| 150 Juniparus Fastiriata | |
| 3 to 3½ ft | 5 |
| 100 Juniperus Fastigiata, | |
| 2 to 3 It | |
| 40 Irish Juniper, 3 to 4 ft 1.9 | Ð |
| 10 Golden Plumosa Retinospora, | |
| 4 ft 4.7 | 3 |
| 75 Spiny Greek Juniper, 18 to 24 ins 2.2 | æ |
| 75 Spiny Greek Juniper, | 13 |
| 24 to 30 ins 2.7 | 5 |
| 50 Spiny Greek Juniper, 3 to 4 ft. | |
| heavy 3.7 | 5 |
| 20 Specimen Dwarf Alberta Spruce, | |
| 3 ft 4.50 | 9 |
| 15 Specimen Dwarf Alberta Spruce, | |
| 24 ins 3.2 | 5 |
| 75 Rerekmans Riota (Aurea | |
| Nana), 18 to 24 ins 2.21 | 5 |
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| We offer the above in heavy specimer | 1 |
| grade and invite your inspection of | ľ |
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| | 18 to 24 ins |
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| 200 | Pieris Floribunda, 3-yr., X50 |
| 25 | Prunus Serr. Kwanzan, |
| | 6 to 8 ft 4.50 |
| 25 | Prunus Serr. Kwanzan, |
| | 5 to 6 ft |
| 15 | Prunus Serr. Pendula, |
| | 2-yr., heavy 5.50 |
| 40 | Prunus Subhirtella Pendula, |
| | 2-yr., heavy 5.50 |
| 1000 | Euonymus Alatus Compactus, sum- |
| | mer cuttings, \$160.00 per 1000. |
| 200 | Azalea Ghent Hybrids, 15 to 18 |
| | ins., \$275.00 per 100. |
| 50 | Mahonia Aquifolium, Is to 24 ins., |
| | \$275.00 per 100. |
| 500 | Hex C. Bullata, 10 to 12 ins., |
| | \$80.00 per 100. |
| | Malus Eleyi, 6 to 8 ft., \$375.00 per |

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J. M. DRUMM MERCERSBURG, PA. sity of Maryland, College Park, and presentation of the professional achievement award will be made.

Following a talk by Dr. John C. Krantz, Jr., head of the department of pharmacology, University of Maryland, on "Plants, Plagues and People," the meeting will close with a business session.

NORTH CAROLINA COURSE.

The fifteenth annual short course at North Carolina State College, Raleigh, to be held January 8 to 10 in the Y.M.C.A. auditorium, will be sponsored jointly by the department of horticulture and the extension service at the college and the North Carolina Association of Nurserymen.

Dr. Clyde F. Smith, head of the department of entomology at the college, will open the discussion sessions Tuesday afternoon, January 8, with a talk on "New Developments in Insect Control." Other speakers at the afternoon session will be Prof. Howard M. Ellis, in charge of agricultural engineering in the extension division, on "Irrigation Systems and Water Supply from Farm Ponds," and Prof. J. C. Ferguson, extension agricultural engineering department, on "Mechanization in the Nursery, with a demonstration of machinery suitable for nursery use. The annual banquet will be held in the evening at Neil House, with Neil Hester, of the Raleigh News and Observer staff, as guest speaker.

"Evergreen Hollies and Broadleaved Evergreens in the South" will be discussed by Prof. Fred C. Galle, department of horticulture, University of Tennessee, Knoxville, the first speaker Wednesday morning, Howard P. Quadland, publicity director, American Association of Nurserymen, will talk on "North Carolina's Role in the 'Plant America' Program," and C. H. Brannon, state entomologist, North Carolina department of agriculture, Raleigh, will give "A Summary of Regulations Affecting the Nurseryman."

Following a business meeting of the North Carolina association, at which President James S. Melton will preside, John L. Creech, horticulturist in charge of the United States plant introduction garden, Glenn Dale, Md., will discuss "Plant Propagation as Practiced at Glenn Dale." Prof. H. B. Owens, head of the department of landscape architecture, University of Georgia, Athens, will describe "Landscape Problems of the Middle South." Azaleas and camellias in the south will be the topic of Dr. Denzell L.

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All prices for 300 or more. If total order is less than 300, prices are 16c, 22c and 28c, instead of 141/2c, 20c and 26c ea.

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| Niagara. 1-yr., No. 1 | | | Early Harvest. Transplants | 7.50 | 65.00 |
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| Caco. 1-yr., No. 1 | .45 12.00 | | Chief. Transplants | 8.50 | 75.00 |
| Van Buren, 2-yr., No. 1 | .60 30.00 | 250.00 | Chief, 1-yr., No. 1 | 7.00 | 60.00 |
| Van Buren. 1-yr., No. 1 | .20 18.00 | | Sunrise, Transplants | 8.50 | 75.00 |
| Portland. 2-yr., No. 1 | .00 17.00 | | Sunrise, 1-yr., No. 1 | 7.00 | 60.00 |
| Portland. 1-yr., No. 1 | .65 13.56 | 110.00 | Indian Summer. Transplants | 9,50 | 85.00 |
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| Wilder, 3-yr., heavy 1 | .80 15.04 | 130.00 | St. Regis. Transplants | 7.00 | 60.00 |
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| Whole Roots | .75 5.50 | 45.00 | Lucretia, No. 1, R.C | 5.00 | 40.00 |
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| Prices of Rancocas, Rubel, Jers | | | Paradise and Washington | | |
| | er Per | Per | 3-yr., heavy | | 30.00 |
| | 100 | 1000 | 2-yr., No. 1 | 2.50 | 20.00 |
| 2-yr., 9 to 12 ins., bearing age\$0.40 \$3. 3-yr., 12 to 18 ins., bearing age55 5. | .50 \$32.56 .00 47.50 | | 1-yr., No. 1 | 2.00 | 15.00 |
| 4-yr., 12 to 18 ins., bearing age75 7. | .00 67.50 | | Whole Roots VICTORIA RHUBARB | | |
| | | | 1%-in. and up | 8.00 | 75.00 |
| GOOSEBERRIES | | Per 100 | 1 to 1%-in | 5.50 | 50.00 |
| Downing. 2-yr., No. 1 | \$4.00 | \$35.00 | % to 1 -in | 4.00 | 35.00 |
| Houghton, 2-yr., No. 1 | 3.00 | 25.00 | % to %-in | 3.00 | 25.00 |
| W | rite for S | pecial Quot | ations on Quantity Lots. | | |

Gill, plant pathologist, coastal plain experiment station, United States Department of Agriculture, Tifton, Ga. A discussion session, "The Question Box," will be held Wednesday evening, with Prof. John H. Harris, extension department of horticulture, North Carolina State, acting as chairman.

Thursday morning, Prof. G. C. Klingman, of the college's department of agronomy, will discuss "The Place of Chemical Weed Control in the Nursery," and John Creech will talk on "The Plant Introduction Program of the U. S. D. A." A talk on bulb production and bulb disease problems in North Carolina will be given by Dr. Frank Haasis, plant pathologist at the North Carolina vegetable research station, Wilmington. "A Progress Report on Our Bulb-drying Experiment," by Edwin Coates, extension specialist in agricultural engineering at the college, will conclude the course.

NEW YORK ARBORISTS.

The second New York state arborists' school at Cornell University, Ithaca, will be held January 14 and 15. Topics to be covered include fungicides, herbicides, insecticides, foliar nutrient sprays, insect and

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- DARK GREEN AMERICAN ARBORVITAE, 4 to 5 ft.
- JUNIPERUS VIRGINIANA BURKI, 3 to 31/2 ft.
- JUNIPER, SWEDISH, 3 to 31/2 ft.
- TAXUS HICKSI, 18 to 24 ins.

Limited list of quality B&B Evergreens in addition to these.

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The ideal permanent evergreen ground cover plant for shady areas in all climates. Strong, well rooted. 1-yr.-old plants. \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more.

Prompt shipment anywhere.

PEEKSKILL NURSERY SHRUB OAK, N. Y.

disease pests, desirable street trees and safety in tree work.

The annual meeting of the New York State Arborists' Association will be held in conjunction with the school. Members will meet the evening of January 14 and during the day January 15 to adopt a constitution and elect new officers.

MIDWEST TREE MEETING.

The theme of the seventh annual meeting of the Midwestern Shade Tree Conference, to be held February 13 to 15 at Hotel La Salle, Chicago, will be the maintenance of ornamental trees and shrubs. The convention is open to everyone, and more than 300 persons are expected to attend.

The program will begin February 13 at 11 a. m. with a talk, entitled "Insects as Carriers of Tree Diseases," by Dr. Roy D. Shenefelt, department of entomology, University of Wisconsin, Madison. Following the presentation of each paper, there will be a short discussion period, and additional opportunities for questions and discussion will be provided in the Stump the Plant Experts and the Plant Clinic sessions, to be held on the second and third days of the convention, respectively. Prizes will be awarded to those whose questions stump the experts.

The second speaker on the program will be Karl Kuemmerling, public utilities forester at Canton, O., who will cover "Safety Practices in Arboriculture." "The Arborist in Community Development" will be discussed by Robert E. Everly, superintendent, park district, Glencoe, Ill., and "Labor-Management Relationships" will be the topic of Harold W. Glissman, superintendent of grounds, Father Flanagan's Boys Home, Boys Town, Neb.

Following a symposium on "Tree Pests," Marvin Stevens, arborist at Glenview, Ill., will talk on "Cooperation versus Cutthroat Operators." Dr. August P. Beilmann, manager of the arboretum at Missouri Botanical Garden, Gray Summit, Mo., is scheduled to discuss "High-speed Ecology and the Arborist," and Oscar Borgmeier, of George A. Davis, Inc., Chicago, Ill., will cover "Economic Trends Affecting Arborists." "Tissue Tests for Plant and Soil Deficiencies" will be discussed by a speaker to be announced later.

Dr. J. C. Carter, Illinois Natural History Survey, Urbana, Ill., will describe "Modern Practices in Tree Work." A speaker is being procured to talk on "Disease and Insect Pests of Evergreens." The final paper on the program will be given by Dr. J. Nelson Spaeth, head of the department of forestry, University of Illinois, Urbana, on "See Both the Forest and the Trees."

Tools and supplies used in arboricultural work will be on display during the convention, with representatives of the participating firms on hand to explain their uses. The ladies have planned a special program for Thursday, February 14, and they will be admitted to the educational lectures without charge.

SOUTH TREE CONFERENCE.

The Southern Shade Tree Conference, a regional meeting of the National Shade Tree Conference, will be held March 28 and 29 at Hotel John Marshall, Richmond, Va., according to H. C. Scott, secretary.

WORCESTER PROGRAM.

A diversified program will be presented by the Worcester County Landscape Gardeners' Association at the annual union agricultural meeting, Thursday, January 10, at Worcester, Mass.

cester, Mass.
Dr. Henry Dorsey, former member of the University of Connecticut faculty, will open the morning session with a paper on "Fundamentals of Lawn Construction." He will be followed by Prof. Kenneth A. Brad-

[Continued on page 36.]

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Many others in smaller quantities

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ley, University of Connecticut, speaking on "Choosing Nursery Stock to Fit the Design."

The afternoon session will feature Prof. William G. Colby, University of Massachusetts, on "Effects of Herbicides and Spray Chemicals on Soils," and Edward J. Duda, entomologist of the Bartlett Tree Expert Co., discussing "Care of Shade Trees." The program will conclude with a round-table discussion including the speakers as panel members plus Lee B. Swope, Brewer Tree Expert Co., and Harvie B. Channin, estate superintendent, both of Worcester.

SOUTHERN HOLLY MEETING.

The Holly Society of America will hold a special meeting for southern holly enthusiasts January 15 at Clemson College, Clemson, S. C.

PENNSYLVANIA MEETING.

Dates for the nursery conference to be held at Pennsylvania State College, State College, sponsored by the department of horticulture, will be February 19 to 21, according to Prof. R. P. Meahl, department of ornamental horticulture.

CAMELLIA SOCIETY PLANS.

The theme for the next annual meeting of the American Camellia Society, to be held March 20 to 22 at the Cavalier hotel, Virginia Beach, Va., will be "Newcomers in the Camellia World." The meeting will coincide with the Norfolk camellia show, to be staged March 22 and 23.

A cocktail hour and get-together dinner Thursday evening, March 20, will open the meeting. Friday's program will begin with visits to camellia gardens in the Norfolk area, followed by luncheon in the Azalea room of the municipal airport at Norfolk and more garden tours. The Norfolk municipal camellia gardens, which are part of the airport property and are connected by a foot

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| Magnolia Stellata, 3 to 4 ft 6.00 |) |

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Red Lake Currants

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Grapevines, 2-yr.

Asparagus—Rhubarb—Sage Horse-radish Roots and Cuttings Boysenberries—Common and Thornless

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For Quick Sale in Quantity Lots At the Following Low Prices

5000 Biota orientalis, per 1000 9 to 12 ins...\$0.10

3000 Boxwood, Df. Dark Green, 6 to 9 ins... .25 9 to 12 ins... .35

1500 Thuja woodwardi (Globe), 2-yr., open field-grown specimens, 12 ins., B&B. 1.25 9 to 12 ins., B.R. .50

6 to 9 ins., B.R. .35
5000 Clematis paniculata
(Sweet Autumn

5000 Euonymus coloratus (Red Wintercreeper), 2-yr., field-grown. . .30

3000 Kerria japonica pleniflora (Dbl. Globe Flower), 2-yr., 2-in. pot .081/2

10,000 Kolkwitzia amabilis, Hvy. Tpl., 12 to 15 ins. .15 Hvy. Tpl., 9 to 12 ins. .12½ Hvy. Tpl., 6 to 9 ins. .10 1000 Salix Caprea

(French Pussy Willow), 2 to 3 ft........25 3 to 4 ft......30

W. N. SCARFF'S SONS,

New Carlisle, Ohio

trail to the new airport building, are in a 100-acre park containing over 10,000 camellia plants of 500 varieties. There are also many private camellia collections at Norfolk, some of them containing over 400

varieties.

Friday evening a forum will be held to discuss new species and varieties of camellias. After a meeting of the board of directors the following morning, visitors will tour Norfolk, stopping for luncheon at the Yacht and Country Club. The crowning of the camellia queen and the formal opening of the camellia show, sponsored by the cities of Norfolk and Suffolk, will take place in the Norfolk Auditorium that afternoon. The annual banquet of the American society will be held in the evening.

PLAN GARDEN SYMPOSIUM.

Two sessions of the Williamsburg Garden Symposium have been scheduled for Williamsburg, Va., the first from February 25 to 27 and the second from March 3 to 5.

Speakers at the first session will include Sam Caldwell, Nashville, Tenn., radio garden commentator; Jan de Graaf, Oregon Bulb Farms, Gresham, Ore.; R. P. Korbobo, Rut-

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| Taxus Browni, 15 to 18 ins., B&B | 5.00 |
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DO YOU NEED SOME NICE EVERGREENS?

Well, here is the place to get them—at a very reasonable price. All Evergreens are nice choice plants, young and vigorous, full of pep—with Sales Appeal—No overgrown stock—cost includes nice balls of earth, burlapped and ready to go. Come in your truck and get them, as boxing and shipping them is more expensive. We can rent trucks at the rate of 25 cents per mile one way, 2-ton capacity, for delivery, if you do not care to come after them. All stock quoted F.O.B. McMinnville, Tenn.

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Arborvitae, Chinese. Price each

| | 12 | to | 15 | ins., | B& 8 | 3. | * | | | | | | | | | | × | \$0.75 |
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| | 15 | to | 18 | ins., | B& E | 3. | | | | | | | | | | | | 1.00 |
| | 18 | to | 24 | ins., | B& 8 | 3 | | | | | | | | | | | | 1.25 |
| | 2 | to | 3 | ft., | B&B. | | | | | * | | | | | * | | | 1.50 |
| A | rbo | rvi | tae | Ber | ckm | an | S | - | G | 0 | le | de | 91 | n. | | | | |
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12 to 15 ins., 8&B. 1.25 15 to 18 ins., 8&B. 1.35 Upright Junipers

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| 18 | to | 24 | ins | ., B& | B. | | | | | | | | | | 1.50 |
| 2 | to | 3 | ft., | B&B | | | | | | | | | | | 2.00 |
| 3 | to | 4 | ft., | B&B | | | | | | | | | | | 2.50 |
| Juni | per | us l | Hib | ernic | a, | l | ris | ih | 7 | lui | ni | p | 00 | 1 | |
| 18 | to | 24 | ins. | . B& | B. | | | | | | | | | | 1.00 |
| 2 | to | 3 | ft., | B&B | | | | | | | | | | | 1.25 |
| 3 | 40 | 4 | 44 | RRR | | | | | | | | | | | 1 75 |

| 3 to 4 ft | ., B&B 1. | 75 |
|---------------|----------------|----|
| Juniperus Exc | | |
| (nice, sh | eared plants). | |
| 18 to 24 in | s., B&B 1. | 75 |
| | s., B&B 2. | |
| | s., B&B 2. | |

| 30 | to | 36 | ins., | B&B. | æ | | × | | × | ė | * | 2.25 |
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| | | | | | | | | | | | | 2.00 |
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| 30 | to | 36 | ins., | B&B. | | . , | | | | * | | 3.00 |
| 34 | to | 42 | inc | RRR | | | | | | | | 3 50 |

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gers University, New Brunswick, N. J.; R. C. Allen, secretary, American Rose Society; Alden Hopkins, landscape architect, Williamsburg, and H. Harold Hume, University of Florida, Gainesville.

Speaking at the second session will be T. H. Everett, New York Botanical Garden; E. Helaine Lintleman, W. Atlee Burpee Co., Doylestown, Pa.; Mrs. Mary D. Lamson, landscape architect, New York; Mrs. Richardson Wright, West Chatham, Mass., and Henry T. Skinner, Morris Arboretum, Chestnut Hill, Pa. Alden Hopkins will make a return appearance at this session.

LAKE COUNTY MEETING.

Thirty members and guests attended a meeting of the Lake County Nurserymen's Association December 3 at Lariccia's restaurant, Mentor, at which F. Glenn Haskins, Lake county agricultural extension agent, reported that February 26 has been set as the date for the annual nursery school and banquet.

A discussion was held of the possible affiliation of the Lake County Nurserymen's Association with the American Association of Nurserymen. President Russell Champion appointed Melvin Wyant, of Melvin E. Wyant Nurseries, Mentor, chairman of a committee to consider the advantages of such an affiliation. Others on the committee are Paul Schumaker and C. T. Waldorf. Several members reported on the recent meeting of the Plant Propagators' Society.

A suggestion was made that the entire association membership tour the Cleveland post office to observe the handling of mail, particularly perishable bundles and packages of nursery stock. Melvin Wyant volunteered to inquire about scheduling such a tour for January.

Logan Monroe, Kingwood Nursery, Mentor, was introduced as a new member. Others who have joined the association during the past year are Paul Orvos, Lake Shore Gardens, Mentor; Paul F. Otto, nurseryman at Perry, and Bernard Schmetzer, Schmetzer's Nursery, Avon.

Guest speaker for the evening was Dr. J. H. Standen, of the B. F. Goodrich Chemical Co., whose topic was "Chemical Weed Killers for the Nursery." In addition to a discussion of several weed killers, he described a synthetic coating for shrubs and other plant material manufactured by his company. He also showed colored slides taken in

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Apple, 2-yr.; Pear, 2-yr.; Montmorency Cherry, 2-yr., all arades.

Montmorency, 1-yr. 900 5/16in, and 500 18 to 24 ins.

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OVERLOOK NURSERIES, Inc. MOBILE, Crichton Sta., ALABAMA

nurseries in the Lake county area pointing out the effects of weed killers on weeds and nursery stock. His assistant for the evening was Howard Greene.

M. Brandstaetter, Sec'v.

NEW MEXICO PROGRAM.

The New Mexico Association of Nurserymen will sponsor a "Plant New Mexico" campaign during the final week of February. Emphasis will be placed on trees and shrubs best suited to the dry climate. Dwarfer varieties will be stressed, because they require less water and are more suited to the rambling, southwestern architecture. chamber of commerce at Albuquerque, N. M., has endorsed the campaign, and meetings of all civic and social groups at Albuquerque have been planned to gain cooperation in the drive.

The Albuquerque unit of the state association has also undertaken two other projects. The first involves the training of students at the Indian school in landscaping methods. The other includes cooperation with the city traffic engineer to eliminate shrubbery and other hazards at intersections.

HAVING been recalled to active duty with the army, J. D. Nicholson has sold J. Doyal Nicholson Florist & Nursery, 1030 South Broadway, Edmond, Okla., to R. M. Graham, who will continue to operate the business under its present name.

LINING-OUT STOCK

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Berry Plants, 100,000 Hedge Plants,

12 to 18 ins., 5c ea. 100,000 Living Fence Multiflora Rosa Japonica, 12 to 18 ins., 5c ea.

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Golden Hedge liners, 15c ea.
Plenty of 2 and 3-year-old, fieldgrown stock in Flowering Shrubs, Dogwoods, Azaleas, Red Barberry, Shade
Trees, Weeping Willows, Double Redflowering Peach, Prunus Pissardi Newport, Upright Red-flowering Japonica,
Flowering Crab, 6-ft. White Pine, Norway Spruce, Magnolia. way Spruce, Magnolia.

Write for complete price lists and terms. Shipping dates: February 20 to May 15. To hold your order, send in early with 1/3 deposit.

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| Camellia Sasanqua. Annette. Cinderella. Cleopatra. Maiden's Blush. Rosea. Texas Star. 8 to 12 ins., liners. 12 to 18 ina., liners. 25.00 15 to 24 ins., liners. 30.00 |
|--|
| Magnolias. Rustica Rubra. Soulangeana. 8 to 12 ins., 2-yr. liners |
| Soulangeana Nigra. Lillifora. 8 to 12 ins., 2-yr. liners |
| Gardenias. Fortunei. Mystery. Radicans. 6 to 8 ins., liners. 7.50 8 to 12 ins., liners. 10.00 12 to 18 ins., liners. 12.50 |
| Ginkge Biloba. 6 to 8 ins., liners |
| Nex Crenata. Bullata. 4 to 6 ins., liners. 10.00 Rotundifolia. 4 to 6 ins., liners. 10.00 6 to 8 ins., liners. 12.50 |
| Blicium Anisatum. 8 to 12 ins., liners. 12.50 12 to 18 ins., liners. 15.90 |
| Viburnum. Macrophyllum. Odoratissimum. 6 to 8 ins., liners. 19.00 8 to 12 ins., liners. 12.50 |
| |

The above are excellent liners, heavily rooted and well grown; sure to please.



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30,000 Potted Taxus Liners

Weigeln Eva Rathke, transplants. Viburnum Rhytidophyllum,

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PECAN TREES

Wight's is your best source for young, vigorous, budded pecan trees—the kind that really makes natisfied customers. Ask for trade prices.

WIGHT NURSERIES, CAIRO, GA.

NEW JERSEY MEETING.

[Continued from page 8.]

a state-wide news release informing the readers that during the month of December in each year, the state police patrol cars are alerted to be on the lookout for thefts from nurseries. In New Jersey, the common objects of thefts are holly, laurel and all forms of needled evergreens.

White Speaks on Economics.

At 10:30, an old friend, whom all New Jersey nurserymen and their guests know, took the speaker's platform. Richard P. White, who at one time was professor of plant pathology at the college of agriculture, Rutgers University, and now is the executive secretary of the American Association of Nurserymen, spoke on "Economic Outlook in the Nurs-ery Business." He mentioned how just one year ago, when he spoke before the group on the subject of "Men, Money and Material," he did some predicting. He smiled as he told us how he hit two of the predictions on the head, with the third one not far from wrong. Dr. White spoke on the factors that affect all business, the tax situation and the obstacles to be hurdled or by-passed. He predicted that the over-all income in the United States in 1952 would be up from twelve to fifteen billions. Savings will be up. There will be lots of money spent on de-

The tax situation, according to Dr. White, is a critical one. The government continues to take profits away from business in ever-increasing amounts. The speaker pointed out plainly how history tells us that no nation ever remained a free nation after thirty-five per cent or more of the nation's income was collected by the government in the form of taxation. He then told us that the United States, at this moment, takes thirty per cent of our national income. With the tremendous spending that is ahead for the federal government, it is plain that we shall be crowding this extremely dangerous thirty-five per cent point in the near future, unless something is done to halt the increased taxation parade.

It was pointed out that one-fifth of the people in this country of ours draw one-half of the annual income. It is this group of people that is so high in home ownership. Naturally, homeowners are a source of income for the nursery industry.

Dr. White then mentioned some factors that should make more business for nurserymen in the coming years. He said that there is plenty

MAGNOLIA SOULANGEANA

| Per 10 2 to 3 ft., BR \$12.50 | Per 100 \$110.00 |
|----------------------------------|---------------------|
| 3 to 4 ft., BR 20.00 | 175.00 |
| 4 to 5 ft., BR 27.50 | 250.00 |
| 2 to 3 ft., B&B 16.00 | 140.00 |
| 3 to 4 ft., B&B 24.00 | 210.00 |
| 4 to 5 ft., B&B 32.00 | 275.00 |
| 5 to 6 ft., B&B 40.00 | 350.00 |
| 6 to 8 ft., B&B 47.50 | 425.00 |

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and that there will be more in 1952. Furthermore, said the speaker, they will be spending it in spite of excessively heavy taxes. Dr. White pointed out that, according to the men in the building trade who should know, the six millionth housing unit since VJ day will be built sometime in 1952; these new homes will be good markets for nursery products for at least five years.

The initial planting for the new home is usually very small compared to what the owner will ultimately spend, he said. The homeowner is bogged down with so many bills when he first starts living in his new house that in most cases he simply cannot landscape the entire property in the first year. Dr. White also mentioned the fact that factory managers in business and industry are taking a wide-awake attitude in regard to landscaping their properties. There will be more of this in the future, and it will continue to be an important outlet for nursery products.

Fruit trees, which have not been selling well during the past three or four years, are now being moved in a normal flow. It seems that the home garden is becoming the greatest outlet for the growers of fruit trees.

Dr. White then touched on the advertising situation in the nursery trade. He said that, as a whole, over the entire nation, it is not too bad, with about four per cent of gross sales devoted to advertising. He suggested that, if, somehow, one per cent more could be added to this, it would mean \$1,500,000 in additional advertising for the nursery industry in the next year. He pointed out that nurserymen must compete for their fair share of the consumer's dollar, and to get it they must advertise.

Business Obstacles.

As for obstacles in the way of a normal business year for the nursery trade, he pointed out that there are now 62,000.000 persons employed in the United States. We are at a new low of 1,600,000 unemployed. This does not mean that there are that many people who absolutely cannot find work. The figure includes the shifting group who are changing jobs, the aged and the disabled. There is a very little flexibility in the labor market, and there will be less in 1952. Operating supplies are getting more scarce all the time, and prices are going up. Cutbacks due to defense contracts will make this worse in 1952. Dr. White urged all nurserymen to secure in advance a

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supply of all materials sufficient to conduct a normal year's business.

He pointed out that distribution costs are up all along the line throughout the industry. Inventory is not up to full requirements, he added, emphasizing that it never has caught up since the war years. There are a few exceptions, but, generally speaking, this is true.

In summing up, he said, "There will be lots of money in 1952, and people will spend it. Shortage of nursery stock will necessarily increase prices, due to greater demand and smaller supply. Costs of operation are on the increase." Dr. White then made this profound statement. He said, "In my opinion, the great decision is just ahead. By 1956, we in America will know whether or not we will return to the principles of free enterprise and live under a democratic form of government or go down like other nations with a life controlled by the state. It was a serious statement, and it took a good man to say it.

Land Classification Review.

Wallace A. Mitcheltree, associate extension specialist in soils at Rutgers University, with the aid of colored slides, reviewed the land classification system. He showed examples of each of the eight different kinds of usable land. Some nurserymen, according to Mr. Mitcheltree, are trying to grow stock on ground that is too costly to manage. He showed pictures of soil "profiles" taken from four different New Jersey nurseries and explained why each was troublesome soil to manage.

The extension specialist then told the group how he and the entire soils department stood ready to assist and cooperate with any nurservmen who had soil problems. He has been working very closely with the nurserymen in New Jersey ever since coming to the state about four years

The group then adjourned to the Rose room for luncheon, where Howard P. Quadland, director of information, A. A. N., spoke on "Plant America." He then gave many instances of how "Plant America" is catching on throughout the nation. "I am very pleased," said Mr. Quadland, "to hear that you received a telegram from the governor's office concerning a 'Plant New Jersey' proclamation. You are the twenty-first state to receive such a proclamation."

Panel on Overhead.

A panel discussion, entitled "Overhead in the Nursery Industry,"

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closed the program. This was led by Frank LaBar, LaBars' Rhododendron Nurseries, Stroudsburg, Pa., assisted by Owen B. Schmidt, F. D. Moore & Sons, Narberth, Pa., and Howard Taylor, Rosedale Nurseries, New York.

In spite of the fact that this came at the end of a long two days, it was a success. Mr. LaBar's deft handling of the discussion, coupled with the two good business heads on the panel, had the audience interested, and at times laughing, from the beginning until the end.

Mr. Schmidt pointed out that his firm operated on the theory of "Quality jobs and excellent service." "This," he said, "kept us operating at a profit right through the depression."

The meeting was adjourned until January 31, 1952, when it will continue as a one-day meeting at Trenton, N. J., as a part of farmers' week.

OKLAHOMA CITY NOTES.

Nurserymen in the Oklahoma City, Okla., area worked until late in December processing fall orders, which equaled those of 1950 in volume. Spare time was devoted to planting, storing shrubs and preparing evergreens for the lath houses. A shortage of junipers, many shrub varieties and fruit trees, especially peach and cherry trees, has been reported.

Homer K. Dodge Landscape Service Co., Framingham, Mass., chairman of the committee on education of the National Landscape Nurserymen's Association, will visit Oklahoma City sometime in January to confer with local landscape architects. They will discuss the training course for landscape nurserymen to be held this year at Oklahoma A. and M. College, Stillwater.

J. Frank Sneed, Sneed Nursery Co., Oklahoma City, recently visited Alice, Sherman and other Texas cities on business.

A new potting shed and two new greenhouses have been completed at Capitol Garden Nurseries, Oklahoma City, according to owner Warren Welch. The greenhouses are each 24x90 feet and will be used for both retail and wholesale stock. The firm has also purchased a 160-acre farm, forty acres of which are now lined out with nursery stock.

B. H. P.

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| 18 to 24 ins., S 5.00 | 45.00 Each |
| 2 to 3 ft., well br | .\$0.20 |
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| NATIVE SHRUBS AND EVERGE | |
| Tsuga Canadensis. Per 100 P | er 1000 |
| 3 to 6 ins., 5 | \$10.00 |
| 6 to 9 ins., S 1.75 | 15.00 |
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| 12 to 18 ins., S 5.00 | 45.00 |
| 18 to 24 ins., S 6.50 | **** |
| Cercis Canadensis. Tilia Americana. Acer Rubrum. | |
| Acer Saccharum. | Each |
| 4 to 5 ft., well br | . \$0.35 |
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CALIFORNIA ASSOCIATION OF NURSERYMEN

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SET PENINSULAR POLICY.

A special business meeting to formulate general policy was held by the Peninsula chapter of the Cali-fornia Association of Nurserymen December 6 at Mount View. It was felt that such a meeting would be a forward step for the new chapter and would assist in the membership drive which begins immediately after the first of the year.

The four topics on the agenda aroused great interest on the part of the membership, as evidenced by the fact that the attendance was fifty per cent more than had been expected. Subjects for discussion were (1) discounts to be allowed members of allied trades, such as landscape gardeners, landscape architects, landscape contractors and others; (2) delivery minimums; (3) replacement policies, and (4) a plan to close all peninsula nurseries on the same day each week.

President James Wilson, Peters & Wilson Nursery, Millbrae, called on individuals in the group to express themselves on the matters under consideration before action was taken

on them.

After little discussion it was agreed to recommend to the membership that no more than ten per cent be allowed as a discount to the allied trades. It was suggested that this discount be reserved for instances of cash payment and not be allowed if a bill becomes more than 30 days old.

Debate on this subject centered principally on determining who should receive wholesale prices. The general agreement was that those who bought in sufficient quantities and who then resold the product should be considered as wholesalers and be allowed the wholesale price even though they might not be eligible to membership in the associa-

The matter of establishing a minimum delivery was less easily settled. The group included rural, suburban and city nurserymen, and each seemed to have his own problem in this connection. It was therefore decided not to make a general recommendation in this matter. The group was advised, however, by several of its members to determine the cost of making a delivery and to try to eliminate deliveries on less costly items.

Replacement policies were discussed, and it was decided that this, too, was an individual matter. Again, the group was warned that replacements cost money even though they were good public relations and that in most cases it was well worth while to investigate a claim and perhaps compromise it rather than to be too lenient in making replacements.

The proposed universal closing received little support, although the wholesalers seemed anxious that



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there be one. They explained that it was difficult to plan calls or deliveries with neighboring nurseries closed on different days. However, each nurseryman who spoke on the matter explained why he had chosen a particular day to close and indicated that he did not feel he could change it. It developed that there was no day in the week on which all nurseries are open, though the number which close on Sunday was found to be small.

In the discussion, it developed that several of the group were considering a 5-day week for their employees, though it was indicated that they did not plan to close their nurseries two days each week. One member reported making a study of this

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situation in which he estimated that the additional help needed for a 5day week for the employees with a 6-day week for the nursery would increase his labor costs about \$150 a week. However, he felt that, with the extra help on hand for Saturday and Sunday, the nursery could handle the business on those days so much better that fewer customers would leave before they were waited on: this would likely result in an increase in business more than enough to offset the higher labor costs. One member who is closed Sundays reported that his customers commented favorably on that policy and made it part of their plans to do their nursery shopping on Saturday or Monday in order to cooperate with him.

The following were introduced as members attending the meetings for the first time: William White, Owens-Corning Fiberglas Corp., Santa Clara; Art Chelton, San Carlos Nursery, San Carlos; Robert Morre, James Rare Plant Nursery, Campbell; Edward Walker, Los Altos Nursery, Los Altos; Worth A. Brown, Brown Bulb Ranch, Capitola; Frank Dorn, C. C. Mossholder Nursery, San Jose; Hans J. Jacobsen, Peninsula Begonia Gardens, Redwood City, and David Weston, Volkman Seed Co.

Charles Burr, California Garden Supply Co., Belmont, secretary of the group, gave a brief report on the actions of the board of directors, who had held a meeting earlier in the day. The board gave further consideration to a Peninsula television program from a San Francisco station. No definite action was taken on this, but a request for more details was made. The directors appointed Juel Christensen, Christensen Nursery Co., Belmont, and James Wilson to meet with the parent Central chapter to decide the matter of the division of funds on hand in the Central treasury at the time of the separation of the groups. Frank Mettam, Jr., Golden Gate Nursery, San Francisco, was appointed a committee of one to take charge of a nursery products display at each meeting. This would enable those with something new or unusual in a nursery product to tell the group about it.

An amendment to the bylaws was proposed permitting the board to nominate a member to fill a vacancy among the officers during a fiscal year. This amendment was later offered to the membership and approved. The nomination of John E. Edwards, John E. Edwards Nursery,

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- 32 33 34 35 36 37 38 39 40 41

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East Palo Alto, to the recently vacated office of vice-president was then received. The nomination was unanimously accepted, and Mr. Edwards was elevated to that office. W. B. B.

PROFITS IN BULBS.

The profit potential in sales of spring bulbs was the subject of a discussion by Charles Burr, of the California Garden Supply Co., Belmont, before a recent meeting of the Redwood Empire chapter of the California Association of Nursery-

Every retail nursery should stock bulbs, said Mr. Burr, to capitalize on the consumer demand created for them by extensive supplier advertising in magazines, newspapers and other media. In addition, persons attracted to the nursery by bulb advertising become prospects for other merchandise.

Regarding stock, Mr. Burr advised that the nursery carry large quantities of a few varieties rather than a large number of varieties. This, he said, makes a bigger impression on the customer. The nursery should stock tulips and daffodils of first quality, supplemented by medium and large grades of ranunculi, anemones, hyacinths and Dutch iris to provide a good price He advised nurserymen range. against stocking the smaller sizes of bulbs because the margin of profit on them is equally small.

Store displays, prominently located, should reflect the stock, featuring large quantities of a few varieties. Pictures of the bulbs in flower make good display material, especially if they are in color. Folders with planting instructions and colored post cards are suitable for display purposes.

Markup, said Mr. Burr, should be at least two and one-half times cost and in some cases three times. At the end of the season the bulbs will have to be marked down to little more than cost. The speaker advised not to mark down more than twenty-five per cent, however, lest early buying be discouraged. It would be better, he observed, to donate the bulbs to a school or the city park.

Records should be kept of what is ordered and what is on hand December 1, as an indication of what and how much to buy for the following bulb season. As a final word of caution, Mr. Burr recommended handling only quality bulbs to eliminate the chance of customer complaints about off grades. H. W.

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CALIFORNIA NOTES.

About twenty-five bay area nurserymen met recently at the Claremont hotel, Oakland, to discuss nursery finances. They were an enlargement of a group which pooled their nursery records about a year ago in order to have a composite report made by an impartial public accountant. Although they are not yet making a fair return on their investment, a slight general upswing in the profits has been shown, apparently because of better budgeting of expenditures. There was some discussion of making the report available to members of the state association through the executive secretary.

Edward Farrington has resigned from his position with Page Mill Nursery, Palo Alto, and is now op-erating Farrington's Flowerland at 615 Middle road, Menlo Park.

Bert Edwards, San Mateo county agricultural inspector, was guest speaker at the fall garden meeting of the American Association of University Women at San Mateo. He was also one of a panel of five who conducted a garden clinic at San Carlos. Steps were taken at the clinic to purchase a San Carlos section of the Butano forest from a lumber company which may cut the virgin redwood trees for timber if funds for its purchase as a state park are not soon forthcoming.

Speakers at a 2-day meeting early in November of the Northern California Turf Conference included members of the faculty of the University of California, representatives from the United States Golf Association, local landscape gardeners and lawn and turf authorities. Stressed during the talks was proper soil preparation, so that grass roots will penetrate at least to a depth of four or five inches and thus be less affected by dry weather. It was pointed out that improper use of soil amendments may cause difficulties greater than those which they are being used to prevent. The turf test plots planted by the Oakland city park department were visited.

At recent hearings before the contractors' license board, the state board has decided that contractors will be classified according to the work they have customarily done in the past. Regardless of new laws which may be passed, they may continue to do the types of work they have previously done without needing to apply for a different classification and license.

The Transcontinental Freight Bureau has added packaged outdoorgrown plants in cans to the wording

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of its regulations, so that such items will be unquestionably entitled to the rate for live plants.

To settle the estate of the late E. A. Aldrich, who owned a nursery at Half Moon Bay, there was recently a sale of all nursery stock, tools and equipment.

Ian Campbell, deputy agricultural commissioner of San Mateo county, has returned to work after two months' sick leave, during which time he underwent two major operations.

Leon Gagne, Rustic Nursery, San Francisco, and Richard L. Plath, H. Plath & Sons, San Francisco, have returned from the Mono lake area in Yosemite National Park, where they went on an expedition to photograph wildlife.

Because of the increased number of nurseries in the area and the general need for more careful inspection, the San Mateo county agricultural commissioner's office has expanded its nursery inspection staff from one to four inspectors, each assigned to a specific sector of the county. The four are assisted in emergencies by a part-time inspector who covers any section in need of extra help.

Special sprays for special weeds are advocated by the department of botany at the University of California, Davis. Experiments to date indicate that Sinox is effective on chickweed and 2,4,5,T on oxalis and blackberry. TCA, sprinkled on as from a watering can, is indicated in control of Bermuda grass, while CMU, applied to the soil to be absorbed through the roots, provides a complete cleanup of all plant life. Maleic hydrazide has been used to check or stunt growth and has been applied to lawns and hedges to lessen the number of mowings or prunings needed each year. The department recommends that persons using these products follow carefully the manufacturers' directions.

San Francisco will be host to the next annual convention of the American Begonia Society, August 30 to September 1, 1952. Present plans call for a flower show and exhibits of new horticultural developments by California growers. Carl F. Meyer is general chairman of the convention committee. W. B. B.

UTAH-IDAHO OFFICERS.

At a meeting of the Utah-Idaho chapter of the American Association of Nurserymen held November 30 at Salt Lake City, Utah, officers were elected for the coming year. They are William H. Neff, landscape gardener, Salt Lake City, president;

Kenneth W. Briggs, Briggs Nursery, Pocatello, Ida., vice-president, and N. Joseph Quist, Forest Hills Nursery, Salt Lake City, secretary-treas-

PROUD grandparents of a baby girl are Kenneth and Audrey H. Calloway, Olive Oak Nursery, Burbank, Calif.

MANAGER Earl Carter and his son, Jack, are celebrating the fifth anniversary of Carters Nursery at Bremerton, Wash.

OWNERS Harry and Shig Iba recently celebrated the fifth anniversary of Rainbow Nursery at its present location at 1635 West Florence avenue, Los Angeles, Calif.

HAVING sold Valley Garden Supply Co., a retail nursery at North Hollywood, Calif., Edward Arnesen will devote full time to California Camellia Gardens, San Fernando, where camellias and azaleas are grown for the wholesale trade.

JAMES MEADOWS, secretary of the Los Angeles chapter of the California Association of Nursery-men and formerly with Ramona Gardens, Altadena, Calif., has joined the Monrovia Nursery Co., Monrovia, Calif.

W. L. CLARK, manager of Germain's Nursery, Van Nuys, Calif., recently underwent an operation for a brain tumor, from which he is slowly recovering. Then in the hospital for observation, Bill Clark was regrettably missed from the presidential chair when the convention of the California Association of Nurserymen met at Yosemite park in September. Since he has been allowed no visitors at St. Joseph's hospital, Burbank, his secretary receives many calls daily about his condition.

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| 2-yr., 2 to 4 ins. 3.00 15.0 American Red Pine, 3-yr., 5 to 10 ins. 9.00 45.0 Vhite Pine, 4-yr., 6 to 14 ins. 5.00 30.0 White Pine, 2-yr., 3 to 6 ins. 5.00 25.0 Ponderosa Pine, 2-yr., 4 to 6 ins. 4.00 Mugho Pine (Dwarf), 2-yr., 2 to 4 ins. 5.00 40.0 Norway Spruce, 3-yr., 2 to 4 ins. 5.00 40.0 White Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 20.0 White Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 Colorado Blue Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 American Arborvitae, 4-yr., 8 to 14 ins. 9.00 2-yr., 2 to 4 ins. 3.00 2-yr., 3 to 6 ins. 3.00 3-yr., 4 to 8 ins. | | | |
| 2-yr., 2 to 4 ins. 3.00 15.0 American Red Pine, 3-yr., 5 to 10 ins. 9.00 45.0 Vhite Pine, 4-yr., 6 to 14 ins. 5.00 30.0 White Pine, 2-yr., 3 to 6 ins. 5.00 25.0 Ponderosa Pine, 2-yr., 4 to 6 ins. 4.00 Mugho Pine (Dwarf), 2-yr., 2 to 4 ins. 5.00 40.0 Norway Spruce, 3-yr., 2 to 4 ins. 5.00 40.0 White Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 20.0 White Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 Colorado Blue Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 American Arborvitae, 4-yr., 8 to 14 ins. 9.00 2-yr., 2 to 4 ins. 3.00 2-yr., 3 to 6 ins. 3.00 3-yr., 4 to 8 ins. | 2-vr., 4 to 6 ins | 5.00 | 25.0 |
| American Red Pine, 3-yr., 2 to 5 ins. 5.00 30.0 White Pine, 4-yr., 6 to 14 ins. 7.00 35.0 Ponderosa Pine. 2-yr., 2 to 6 ins. 5.00 25.0 Ponderosa Pine. 2-yr., 4 to 6 ins. 4.00 20.0 Mugho Pine (Dwarf). 2-yr., 2 to 4 ins. 5.00 25.0 Norway Spruce. 3-yr., 2 to 4 ins. 8.00 40.0 2-yr., 2 to 5 ins. 4.00 20.0 White Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 Colorado Blue Spruce, 3-yr., 2 to 4 ins. 5.00 20.0 American Arborvitae, 4-yr., 2 to 4 ins. 5.00 35.0 2-yr., 2 to 4 ins. 5.00 20.0 Norway Spruce, 3-yr., 2 to 4 ins. 5.00 30.0 2-yr., 2 to 4 ins. 5.00 30.0 2-yr., 2 to 5 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 30.0 2-yr., 2 to 4 ins. 5.00 40.0 2-yr., 2 to 4 ins. 5.00 30.0 2-yr., 2 to 4 ins. 5.00 30.0 2-yr., 2 to 5 ins. 6 ins. 6.00 30.0 2-yr., 2 to 5 ins. 10.00 50.0 2-1, 3 to 5 ins. 10.00 50.0 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 2-1, 4 to 8 ins. 8.00 40.0 2-2, 4 to 8 ins. 8.00 40.0 2-2, 4 to 8 ins. 8.00 40.0 2-2, 4 to 8 ins. 10.00 50.0 3-3, 5 to 15 ins. 10.00 50.0 3-3, 5 to 15 ins. 10.00 50.0 3-3, 5 | 2-yr., 2 to 4 ins | | |
| 3-yr., 5 to 10 ins. 9.00 45.0 2-yr., 2 to 5 ins. 5.00 30.0 White Pine, 4-yr., 6 to 14 ins. 7.00 25.0 2-yr., 3 to 6 ins. 5.00 25.0 Ponderosa Pine. 2-yr., 4 to 6 ins. 4.00 20.0 Mugho Pine (Dwarf). 2-yr., 2 to 4 ins. 5.00 2-yr., 2 to 5 ins. 4.00 20.0 White Spruce. 3-yr., 5 to 10 ins. 8.00 40.0 2-yr., 2 to 5 ins. 4.00 20.0 White Spruce. 2-yr., 2 to 4 ins. 5.00 20.0 Colorado Blue Spruce. 2-yr., 2 to 4 ins. 5.00 20.0 Colorado Blue Spruce. 4.00 2-yr., 2 to 4 ins. 5.00 25.00 American Arborvitae. 4-yr., 8 to 14 ins. 9.00 2-yr., 2 to 4 ins. 9.00 2-yr., 2 to 8 ins. 9.00 2-yr., 2 to 9.00 2-yr., 2 to 9.00 2-yr., 3 to 6 ins. 9.00 2-yr., 3 to 6 ins. 9.00 2-yr., 3 to 5 ins. 9.00 2-yr., 4 to 8 ins. 9.00 2-yr., | American Red Pine. | 0.00 | 20.0 |
| 2-yr., 2 to 5 ins. 5.00 30.0 White Pine, 4-yr., 6 to 14 ins. 7.00 35.0 2-yr., 3 to 6 ins. 5.00 25.0 Ponderosa Pine, 2-yr., 4 to 6 ins. 4.00 20.0 Mugho Pine (Dwarf), 2-yr., 2 to 4 ins. 5.00 25.0 Norway Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 5 ins. 4.00 20.0 White Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 Colorado Blue Spruce, 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 26.0 2-yr., 2 to 4 ins. 5.00 26.0 2-yr., 2 to 4 ins. 5.00 26.0 2-yr., 2 to 4 ins. 5.00 30.0 2-yr., 2 to 4 ins. 7.00 35.0 2-yr., 2 to 4 ins. 7.00 35.0 2-yr., 2 to 4 ins. 7.00 35.0 2-yr., 2 to 5 ins. 6.00 25.0 Norway Spruce, 2-2, 1 to 20 ins. 10.00 50.0 2-1, 3 to 5 ins. 10.00 50.0 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 2-1, 4 to 8 ins. 8.00 3-3, 15 to 20 ins. 8.00 2-2, 4 to 8 ins. 8.00 3-3, 5 to 15 ins. 8.00 3-4, 5 to 15 ins. 8.00 3-5, 5 to 15 ins. 8.00 3-6, 5 to 15 ins. 8.00 3-7, 5 to 15 ins. 8.00 3-8, 5 to 15 ins. 8.00 3-9, 5 to 15 ins. 8.00 3-1, 5 to 20 ins. 8.00 3-1, 5 to 20 ins. 8.00 3-2, 5 to 15 ins. 9.00 3-3, 5 to 15 ins. 9.00 3-4, 5 to 15 ins. 9.00 3-5, 5 to 15 ins. 9.00 3-6, 5 to 15 ins. 9.00 3-7, 5 to 15 ins. 9.00 3-8, 5 to 15 ins. 9.00 3-9, 5 to 15 ins. 9.00 3 | | 9.00 | 45.00 |
| White Pine, 4-yr., 3 to 6 ins. 2-yr., 3 to 6 ins. 2-yr., 4 to 6 ins. 2-yr., 4 to 6 ins. 3 to 6 ins. 2-yr., 4 to 6 ins. 3 to 7 ins. 4 to 8 ins. 4 to 8 ins. 5 to 6 ins. 3 to 6 ins. 4 to 6 | 2-yr., 2 to 5 ins | | |
| 4-yr., 6 to 14 ins. 7.00 35.0 2-yr., 3 to 6 ins. 4.00 20.0 Mugho Pine (Dwarf). 2-yr., 2 to 4 ins. 5.00 25.0 Norway Spruce. 3-yr., 4 to 6 ins. 4.00 20.0 White Spruce. 3-yr., 2 to 4 ins. 8.00 40.0 2-yr., 2 to 4 ins. 9.00 45.0 2-yr., 2 to 4 ins. 9.00 60.0 2-yr., 2 to 4 ins. 9.00 60.0 2-yr., 2 to 4 ins. 9.00 60.0 2-yr., 3 to 5 ins. 9.00 60.0 2-1, 4 to 8 ins. 12.00 60.0 2-1, 4 to 8 ins. 12.00 60.0 2-1, 4 to 8 ins. 9.00 30.0 White Spruce, 2-1, 3 to 5 ins. 10.00 50.0 2-1, 4 to 8 ins. 9.00 30.0 White Spruce, 2-1, 3 to 5 ins. 10.00 50.0 2-1, 4 to 8 ins. 9.00 30.0 White Spruce, 2-1, 3 to 5 ins. 10.00 50.0 2-1, 4 to 8 ins. 9.00 30.0 2-1, 4 to 8 ins. 9.00 30.0 2-2, 4 to 8 ins. 9.00 30.0 2-3, 15 to 20 ins. 80.00 2-4, 4 to 8 ins. 9.00 30.0 3-3, 9 to 15 ins. 9.00 3-3, 9 to 15 | White Pine. | | 00101 |
| 2-yr., 3 to 6 ins. 5.00 25.0 Ponderosa Pine. 2-yr., 4 to 6 ins. 4.00 20.0 Mugho Pine (Dwarf). 2-yr., 2 to 4 ins. 5.00 25.0 Norway Spruce. 3-yr., 5 to 10 ins. 8.00 40.0 2-yr., 2 to 5 ins. 4.00 20.0 White Spruce. 3-yr., 2 to 5 ins. 4.00 20.0 White Spruce. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 American Arborvitae. 5.00 40.0 2-yr., 2 to 4 ins. 5.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 American Arborvitae. 5.00 25.0 2-yr., 2 to 4 ins. 9.00 45.0 2-yr., 2 to 5 ins. 6.00 25.0 Norway Spruce. 9.00 45.0 2-2, 4 to 8 ins. 7.00 50.0 2-2, 4 to 8 ins. 8.00 40.0 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Pine, 2-2, 8 to 15 ins. 10.00 50.0 2-1, 3 to 5 ins. 8.00 30.0 White Pine, 2-2, 8 to 15 ins. 10.00 50.0 2-2, 4 to 8 ins. 8.00 American Arborvitae. 8.00 3-3, 15 to 20 ins. 80.00 3-3, 8 to 15 ins. 80.00 3-3, 8 to 15 ins. 80.00 3-3, 8 to 15 ins. 95.00 2-2, 4 to 8 ins. 10.00 50.0 2-2, 4 to 8 ins. 10.00 50.00 | | 7.00 | 35.00 |
| Ponderosa Pine, 2-yr., 4 to 6 ins | | | |
| 2-yr., 4 to 6 ins. 4.00 20.0 Mugho Pine (Dwarf), 2-yr., 2 to 4 ins. 5.00 3-yr., 5 to 10 ins. 8.00 2-yr., 2 to 5 ins. 4.00 2-yr., 2 to 5 ins. 4.00 2-yr., 2 to 5 ins. 4.00 2-yr., 2 to 5 ins. 8.00 2-yr., 2 to 5 ins. 8.00 2-yr., 2 to 4 ins. 5.00 2-yr., 2 to 4 ins. 5.00 2-yr., 2 to 4 ins. 5.00 2-yr., 3 to 7 ins. 8.00 40.00 3-yr., 3 to 7 ins. 8.00 40.00 3-yr., 4 to 8 ins. 9.00 4.yr., 8 to 14 ins. 9.00 3-yr., 4 to 8 ins. 7.00 2-yr., 2 to 4 ins. 5.00 2-yr., 2 to 4 ins. 5.00 2-yr., 2 to 6 ins. 6.00 3-yr., 4 to 8 ins. 10.00 2-yr., 2 to 8 ins. 8.00 40.00 Norway Spruce, 2-2, 4 to 8 ins. 8.00 2-2, 4 to 8 ins. 8.00 2-2, 4 to 8 ins. 8.00 2-2, 1 is to 5 ins. 6.00 30.00 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Pine, 2-2, 8 to 15 ins. 10.00 30.00 White Pine, 2-2, 8 to 15 ins. 6.00 30.00 White Pine, 2-2, 8 to 15 ins. 6.00 30.00 White Pine, 2-2, 8 to 15 ins. 10.00 3-3, 15 to 20 ins. 80.00 3-3, 15 to 20 ins. 80.00 3-3, 15 to 20 ins. 80.00 3-4, 15 to 20 ins. 80.00 3-5, 8 to 15 ins. 35.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 80.00 3-3, 15 to 20 ins. 80.00 3-4, 15 to 20 ins. 80.00 3-5, 10 to 50 ins. 95.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 3-5, 50.00 3-5, 50.00 3-5, 50.00 3-6, 50.00 3-7, 50.00 3-8, 50.00 3-9, 50.00 3-9, 50.00 3-1 | Ponderosa Pine. | 0100 | |
| Mugho Pine (Dwarf), 2-yr. 2 to 4 ins. 5.00 25.0 Norway Spruce, 3-yr. 2 to 5 ins. 4.00 20.0 White Spruce, 3-yr. 2 to 5 ins. 4.00 20.0 White Spruce, 3-yr. 2 to 4 ins. 8.00 40.0 2-yr. 2 to 4 ins. 8.00 40.0 2-yr. 2 to 4 ins. 5.00 25.0 American Arborvitae, 4-yr. 8 to 14 ins. 7.00 35.0 2-yr. 2 to 4 ins. 5.00 45.0 2-yr. 2 to 5 ins. 5.00 40.0 2-yr. 2 to 6 ins. 7.00 45.0 2-yr. 2 to 6 ins. 7.00 35.0 2-yr. 2 to 6 ins. 7.00 45.0 2-yr. 2 to 6 ins. 6.00 25.0 Norway Spruce, 2-2 8 to 16 ins. 10.00 50.00 2-2 4 to 8 ins. 12.00 60.0 2-1 3 to 5 ins. 12.00 60.0 2-1 3 to 5 ins. 10.00 50.00 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 White Spruce, 2-1 3 to 5 ins. 6.00 30.00 3-3 to 5 ins. 80.00 2-2 to 8 ins. 80.00 3-3 to 5 ins. 80.00 2-2 to 8 ins. 80.00 3-3 to 5 ins. 80.00 3-3 to 5 ins. 80.00 3-4 to 8 ins. 10.00 50.00 2-2 to 8 ins. 80.00 3-5 to 5 ins. 80.00 3-6 to 5 ins. 80.00 3-7 to 5 ins. 80.00 3-8 to 5 ins. 80.00 3-9 to 5 ins. 80.00 3-9 to 5 ins. 80.00 3-1 to 5 ins. 80.00 3-1 to 5 ins. 80.00 3-2 to 5 ins. 80.00 3-3 to 5 ins. 80.00 3-5 to 5 ins. 80.00 3-7 to 5 ins. 80.00 3-8 to 5 ins. 80.00 3-9 to 5 i | 2-vr., 4 to 6 ins | 4.00 | 20.00 |
| 2-yr., 2 to 4 ins. 5.00 25.0 Norway Spruce. 3-yr., 5 to 10 ins. 8.00 40.0 2-yr., 2 to 5 ins. 4.00 20.0 White Spruce. 3-yr., 4 to 8 ins. 8.00 40.0 2-yr., 2 to 4 ins. 8.00 40.0 2-yr., 2 to 4 ins. 8.00 20.0 Colorado Blue Spruce. 3-yr., 3 to 7 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 American Arborvitae. 4-yr., 8 to 14 ins. 9.00 45.0 3-yr., 4 to 8 ins. 7.00 35.0 2-yr., 2 to 4 ins. 6.00 30.0 ETANSPLANTS Scotch Pine, 2-3. 15 to 20 ins. 8.00 40.0 2-1, 3 to 5 ins. 10.00 50.0 2-2, 4 to 8 ins. 12.00 60.0 2-2, 4 to 8 ins. 12.00 60.0 2-2, 4 to 8 ins. 12.00 60.0 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 2-1, 4 to 8 ins. 8.00 40.0 American Arborvitae, 3-3, 15 to 20 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.0 2-1, 4 to 8 ins. 8.00 40.0 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | Mugho Pine (Dwarf). | | 20.0 |
| Norway Spruce, 3-yr. 1 to 10 lns. 8.00 40.0 2-yr. 2 to 5 lns. 4.00 20.0 White Spruce, 3-yr. 4 to 8 lns. 8.00 40.0 2-yr. 2 to 4 lns. 4.00 20.0 Colorado Blue Spruce, 3-yr. 3 to 7 lns. 8.00 40.0 2-yr. 2 to 4 lns. 5.00 25.0 American Arborvitae, 4-yr. 8 to 14 lns. 5.00 45.0 3-yr. 4 to 8 lns. 7.00 35.0 2-yr. 2 to 4 lns. 5.00 25.0 2-yr. 2 to 4 lns. 5.00 25.0 | | 5.00 | 25.00 |
| 3-yr., \$ to 10 ins. \$ 8,00 40.0 2-yr., 2 to 5 ins. \$ 4.00 20.0 White Spruce. 3-yr., 4 to 8 ins. \$ 8.00 40.0 2-yr., 2 to 4 ins. \$ 4.00 20.0 Colorado Blue Spruce. 3-yr., 3 to 7 ins. \$ 8.00 40.0 2-yr., 2 to 4 ins. \$ 5.00 25.0 American Arborvitae. 4-yr., 8 to 14 ins. \$ 9.00 45.0 3-yr., 4 to 8 ins. \$ 7.00 35.0 2-yr., 2 to 4 ins. \$ 5.00 25.0 American Arborvitae. 4-yr., 8 to 14 ins. \$ 9.00 45.0 3-yr., 4 to 8 ins. \$ 7.00 35.0 Cyr., 2 to 4 ins. \$ 5.00 25.0 Douglas Fir, 2-yr., 3 to 6 ins. \$ 6.00 30.0 TRANSPLANTS. Seotch Pine, 2-2, 15 to 20 ins. \$ 25.00 75.0 2-2, 4 to 8 ins. \$ 10.00 50.0 2-2, 4 to 8 ins. \$ 10.00 50.0 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. \$ 6.00 30.0 2-1, 4 to 8 ins. \$ 8.00 40.0 American Arborvitae, 3-3, 15 to 20 ins. \$ 80.00 2-3, 5 to 15 ins. \$ 35.00 2-2, 4 to 8 ins. \$ 10.00 50.0 2-2, 4 to 8 ins. \$ 10.00 50.0 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | Norway Spruce. | 0100 | 40.0 |
| 2-yr., 2 to 5 ins. 4.00 20.0 White Spruce. 3-yr., 4 to 8 ins. 8.00 40.0 Colorado Blue Spruce. 3-yr., 3 to 7 ins. 8.00 20.0 Colorado Blue Spruce. 3-yr., 2 to 4 ins. 5.00 40.0 2-yr., 2 to 4 ins. 5.00 40.0 2-yr., 2 to 4 ins. 5.00 45.0 3-yr., 4 to 8 ins. 7.00 35.0 2-yr., 2 to 4 ins. 5.00 35.0 2-yr., 2 to 4 ins. 5.00 25.0 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 25.0 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 30.0 Scotch Pine. 2-3, 15 to 20 ins. 8.00 40.0 2-2, 8 to 16 ins. 10.00 50.00 2-2, 8 to 16 ins. 10.00 50.00 2-2, 8 to 14 ins. 12.00 60.0 2-2, 4 to 8 ins. 12.00 60.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 3-3, 8 to 15 ins. 80.00 3-3, 15 to 20 ins. 80.00 3-3, 15 to 20 ins. 80.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 10.00 50.00 2-4, 5 to 15 ins. 80.00 3-3, 9 to 15 ins. 80.00 3-3, 9 to 15 ins. 80.00 3-3, 9 to 15 ins. 80.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 50 to 50 per cent deposit with order, balance C.O.D. 5 per cent deposit with order, tites of 25,000. | 3-yr. 5 to 10 ins | 8.00 | 40.00 |
| White Spruce, 3-yr., 2 to 4 ins. 2-yr., 2 to 4 ins. 3-yr., 3 to 7 ins. 3-yr., 3 to 7 ins. 3-yr., 3 to 7 ins. 3-yr., 2 to 4 ins. 3-yr., 2 to 4 ins. 5-yr., 3 to 6 ins. 6-yr., 2 to 4 ins. 10-yr., 2 to 4 ins. | 2-yr. 2 to 5 ins | | |
| 3-yr., 4 to 8 lns. 8.00 40.0 2-yr., 2 to 4 ins. 4.00 20.0 Colorado Blue Spruce. 3-yr., 3 to 7 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 American Arborvitae, 4-yr., 8 to 14 ins. 9.00 45.0 2-yr., 2 to 4 ins. 5.00 25.0 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 25.0 Example 1 to 8 lns. 10.00 50.00 Scotch Pine, 2-3, 15 to 20 ins. 25.00 75.00 2-2, 8 to 15 ins. 10.00 50.00 2-2, 4 to 8 ins. 12.00 60.0 2-2, 3 to 14 ins. 12.00 60.00 2-1, 4 to 8 ins. 12.00 60.00 2-1, 4 to 8 ins. 12.00 60.00 2-1, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 8.00 2-2, 4 to 8 ins. 8.00 2-3, 5 to 15 ins. 8.00 2-4, 5 to 15 ins. 8.00 2-4, 5 to 15 ins. 8.00 2-4, 5 to 15 ins. 8.00 2-5, 6 to 15 ins. 8.00 2-6, 6 to 5, 6 to 5, 6 to 6, 6 to | White Spruce | 4.00 | 40.00 |
| 2-yr., 2 to 4 ins. 4.00 20.0 Colorado Blue Spruce. 3-yr., 3 to 7 ins. 8.00 40.0 2.yr., 2 to 4 ins. 5.00 25.0 American Arborvitae. 4-yr., 8 to 14 ins. 9.00 45.0 3.yr., 4 to 8 ins. 7.00 35.0 2.yr., 2 to 4 ins. 6.00 30.0 Colorado Spruce. TRANSPLANTS. Scotch Pine, 2-3. 15 to 20 ins. 10.00 50.0 2.2 4 to 8 ins. 10.00 50.0 2.2 4 to 8 ins. 10.00 50.0 Colorado Spruce. 2-2. 8 to 14 ins. 10.00 50.0 2.2 4 to 8 ins. 12.00 60.0 Colorado Spruce. 2-2. 8 to 14 ins. 10.00 50.0 Colorado Spruce. 2-2. 8 to 14 ins. 10.00 50.0 Colorado Spruce. 2-2. 8 to 14 ins. 10.00 50.0 Colorado Spruce. 2-1, 3 to 5 ins. 6.00 30.0 White Spruce. 2-1, 3 to 5 ins. 6.00 30.0 White Spruce. 2-1, 3 to 5 ins. 6.00 30.0 Colorado Spruce. 2-1, 4 to 8 ins. 8.00 40.0 Colorado Spruce. 3-3, 15 to 20 ins. 8.00 40.0 Colorado Spruce. 3-3, 15 to 20 ins. 80.00 3-3. 8 to 15 ins. 30.00 2-2. 4 to 8 ins. 10.00 50.0 Colorado Spruce. 3-5.00 50.0 Colorado Spruce. 3 | | 8.00 | 40.00 |
| Colorado Blue Spruce. 3-yr., 3 to 7 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.0 American Arborvitae. 4-yr., 8 to 14 ins. 9.00 45.0 2-yr., 2 to 4 ins. 5.00 25.0 2-yr., 2 to 4 ins. 5.00 25.0 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 25.0 Seotch Pine, 2-3, 15 to 20 ins. 25.00 75.0 2-2, 8 to 15 ins. 10.00 50.0 2-2, 4 to 8 ins. 8.00 40.0 3-3, 15 to 20 15. 6.00 60.0 2-1, 4 to 8 ins. 12.00 60.0 2-1, 4 to 8 ins. 12.00 60.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 White Spruce, 2-1, 3 to 5 ins. 6.00 30.0 2-1, 4 to 8 ins. 8.00 2-2, 4 to 8 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.0 2-1, 4 to 8 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.0 2-2, 5 to 15 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 5 to 15 ins. 8.00 3-3, 9 to 15 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 5 to 5 ins. 8.00 3-4, 5 to 5 ins. 8.00 3-5, 5 to 5 ins. 8.00 3-6, 5 to 5 ins. 8.00 3-7, 5 to 5 ins. 8.00 3-8, 5 to 5 ins. 8.00 3-9, 5 to 5 ins. 8.00 3-1, 5 to 5 ins. 8.00 3-1, 5 to 5 ins. 8.00 3-2, 5 to 5 ins. 8.00 3-3, 5 to 5 ins. 8.00 3-4, 5 to 5 ins. 8.00 3-5, 5 to 5 ins. 8.00 3-6, 5 to 5 ins. 8.00 3-7, 5 to 5 ins. 8.00 3-8, 5 to 5 ins. 8.00 3-9, 5 to 5 ins. 8.00 3-1, 5 to 5 ins. 9.00 | 2-vr. 2 to 4 ins | | |
| 3-yr., 3 to 7 ins. 8.00 40.0 2-yr., 2 to 4 ins. 5.00 25.00 American Arborvitae. 4-yr., 8 to 14 ins. 9.00 45.00 3-yr., 4 to 8 ins. 7.00 35.0 2-yr., 2 to 4 ins. 5.00 25.00 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 30.00 TRANSPLANTS. Scotch Pine, 2-3, 15 to 20 ins. 25.00 75.00 2-2, 8 to 15 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 12.00 60.00 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 2-1, 4 to 8 ins. 8.00 American Arborvitae, 3-3, 15 to 20 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | Colorado Blue Spruce | *.00 | 20.00 |
| 2-yr., 2 to 4 ins. 5.00 25,00 American Arborvitae. 4-yr., 8 to 14 ins. 7.00 35,00 2-yr., 2 to 4 ins. 7.00 25,00 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 TRANSPLANTS. Scotch Pine, 2-3, 15 to 20 ins. 25,00 2-2, 8 to 15 ins. 10,00 50,00 2-2, 4 to 8 ins. 8.00 Norway Spruce, 2-2, 3 to 14 ins. 12,00 60,00 2-1, 4 to 8 ins. 8,00 2-2, 4 to 8 ins. 10,00 50,00 2-1, 5 to 15 ins. 8,00 2-2, 4 to 8 ins. 10,00 50,00 2-2, 5 to 15 ins. 8,000 2-2, 4 to 8 ins. 10,00 50,00 2-2, 5 to 15 ins. 8,000 2-2, 5 to 15 ins. 8,000 2-2, 5 to 15 ins. 8,000 2-2, 5 to 5 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | | 8.00 | 40.00 |
| American Arborvitae, 4-yr., 8 to 14 ins. 9.00 45.00 3-yr., 4 to 8 ins. 7.00 35.00 2-yr., 2 to 4 ins. 5.00 25.00 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 30.00 TRANSPLANTS. Scotch Pine, 2-3, 15 to 20 ins. 25.00 75.00 2-2, 8 to 15 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 40.00 Norway Spruce, 2-2, 8 to 14 ins. 16.00 80.00 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 2-1, 4 to 8 ins. 8.00 40.00 American Arborvitae, 3-3, 15 to 20 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 8 to 15 ins. 35.00 2-2, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 8 to 15 ins. 35.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 9 to 15 ins. 35.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 9 to 15 ins. 35.00 2-5, 9 to 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | 2-yr 2 to 4 ins | | |
| 4-yr., 8 to 14 ins. 9.00 45.00 3-yr., 4 to 8 ins. 7.00 25.00 2-yr., 2 to 4 ins. 5.00 25.00 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 TRANSPLANTS. Scotch Pine, 25.00 75.00 2-2, 8 to 15 ins. 10.00 2-2, 8 to 15 ins. 10.00 2-2, 4 to 8 ins. 8.00 Norway Spruce. 2-2, 8 to 14 ins. 12.00 2-2, 4 to 8 ins. 12.00 80.00 2-1, 3 to 5 ins. 6.00 30.00 With Spruce 2-1, 3 to 5 ins. 6.00 30.00 With Spruce 2-1, 3 to 5 ins. 10.00 2-1, 4 to 8 ins. 10.00 50.00 3-1, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 10.00 50.00 With Spruce 2-1, 3 to 5 ins. 10.00 3-3, 8 to 15 ins. 30.00 2-2, 4 to 8 ins. 10.00 3-3, 8 to 15 ins. 80.00 3-3, 8 to 15 ins. 80.00 2-2, 4 to 8 ins. 10.00 5-0.00 2-2, 4 to 8 ins. 10.00 5-0.00 2-2, 5 to 55.00 2 | | 0.00 | 20.00 |
| 3-yr., 4 to 8 ins. 7.00 25.00 2-yr., 2 to 4 ins. 5.90 25.00 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 30.00 TRANSPLANTS. Scotch Pine, 2-3, 15 to 20 ins. 25.00 75.00 2-2, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 12.00 60.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 2-1, 4 to 8 ins. 8.00 American Arborvitae, 3-3, 15 to 20 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 30.00 3-3, 8 to 15 ins. 35.00 2-2, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 10.00 50.00 2-1, 5 to 5 ins. 6.00 30.00 3-3, 8 to 15 ins. 35.00 3-3, 8 to 15 ins. 35.00 3-3, 9 to 15 ins. 35.00 3-4, 9 to 15 ins. 35.00 3-5, 9 to 15 ins. 35.00 3-6, 9 to 15 ins. 35.00 3-7, 9 to 15 ins. 35.00 3-8, 9 to 15 ins. 35 | | 9.00 | 45.00 |
| 2-yr., 2 to 4 ins. 5.00 25.00 Douglas Fir, 2-yr., 3 to 6 ins. 6.00 30.00 TRANSPLANTS. Scotch Pine, 2-3, 15 to 20 ins. 25.00 75.00 2-2, 8 to 15 ins. 10.00 50.00 2-2, 4 to 8 ins. 8.00 Morway Spruce, 2-2, 8 to 14 ins. 16.00 80.00 2-2, 4 to 8 ins. 12.00 60.00 2-2, 4 to 8 ins. 12.00 60.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 90.00 50.00 40.00 5 | | | |
| Douglas Fir, 2-yr., 3 to 6 ins. 6.00 30.00 | 2-vr. 2 to 4 ins | | |
| TRANSPLANTS. 2-3, 15 to 20 ins. 25.00 75.00 2-2, 8 to 15 ins. 10.00 50.00 2-2, 4 to 8 ins. 8.00 Norway Spruce, 2-2, 8 to 14 ins. 16.00 80.00 2-2, 4 to 8 ins. 12.00 60.00 2-2, 4 to 8 ins. 12.00 60.00 2-1, 3 to 5 ins. 6.00 30.00 White Pince 2-2, 8 to 15 ins. 10.00 50.00 2-1, 4 to 8 ins. 80.00 2-1, 4 to 8 ins. 30.00 2-2, 4 to 8 ins. 80.00 3-3, 15 to 20 ins. 80.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 5 to 15 ins. 35.00 2-2, 6 to 5 ins. 10.00 50.00 2-2, 6 to 5 ins. 10.00 3-3, 15 to 2-2, 15 ins. 10.00 3-4, 15 to 2-2, 15 ins. 10.00 3-4, 15 to 2-2, 15 ins. 10.00 3-5, 10.00 3-6, 10.00 3-7, 10.00 3-7, 10.00 3-8, 10.00 3-8, 10.00 3-9, 10.00 | Douglas Fir. 2-vr. 3 to 6 ins. | | |
| Scotch Pine, 2-3, 15 to 20 ins. 25.00 75.00 2-2, 8 to 15 ins. 10.00 50.00 2-2, 4 to 8 ins. 8.00 40.00 2-2, 4 to 8 ins. 16.00 80.00 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 2-1, 4 to 8 ins. 8.00 40.00 2-1, 4 to 8 ins. 8.00 American Arborvitae, 3-3, 15 to 20 ins. 8.00 2-2, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 10.00 50.00 2-1, 4 to 8 ins. 10.00 50.00 2-2, 4 to 8 ins. 10.00 50.00 2-2, 5 to 15 ins. 35.00 2-2, 4 to 8 ins. 10.00 50.00 2-3, 5 to 15 ins. 10.00 50.00 2-3, 5 to 5 ins. 10.00 50.00 2-5, 5 to 5 ins. 10.00 2-5, 5 to 5 ins. 10.00 50.00 2-5, 5 to 5 ins. 10.00 | TRANSPLANTS | 0.00 | 00.00 |
| 2-3, 15 to 20 ins. 25.00 75.00 2-2, 8 to 15 ins. 10.00 50.00 2-2, 4 to 8 ins. 8.00 40.00 Norway Spruce, 2-2, 8 to 14 ins. 16.00 80.00 2-1, 3 to 5 ins. 12.00 60.00 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Pine, 2-2, 8 to 15 ins. 10.00 50.00 2-1, 4 to 8 ins. 8.00 American Arborvitae, 3-3, 15 to 20 ins. 80.00 2-2, 4 to 8 ins. 10.00 50.00 Cash; or 50 to 50 | Sentch Pine | | |
| 2-2, 8 to 15 ins | 2-3, 15 to 20 ins | 25.00 | 75.00 |
| 2-2, 4 to 8 ins. 8.00 40.00 Norway Spruce, 2-2, 8 to 14 ins. 16.00 80.01 2-2, 4 to 8 ins. 12.00 60.00 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 6.00 30.00 White Pine, 2-2, 8 to 15 ins. 10.00 50.00 2-1, 4 to 8 ins. 8.00 American Arborvitae, 3-3, 15 to 20 ins. 80.00 2-2, 4 to 8 ins. 10.00 50.00 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | | | |
| Norway Spruce, 2-2, 8 to 14 ins. 16.00 80.01 2-2, 4 to 8 ins. 12.00 60.01 2-1, 3 to 5 ins. 6.00 30.01 White Spruce, 2-1, 3 to 5 ins. 6.00 30.01 White Pine, 2-2, 8 to 15 ins. 10.00 50.00 2-1, 4 to 8 ins. 8.00 40.01 American Arborvitae, 3-3, 15 to 20 ins. 80.00 3-3, 8 to 15 ins. 35.00 2-2, 4 to 8 ins. 10.00 50.00 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | 2-2 4 to 8 ins | | |
| 2-2, 8 to 14 ins. 16.00 80.01 2-2, 4 to 8 ins. 12.00 60.00 2-1, 3 to 5 ins. 6.00 30.00 White Spruce, 2-1, 3 to 5 ins. 10.00 30.00 White Pine, 2-2, 8 to 15 ins. 10.00 50.00 2-1, 4 to 8 ins. 8.00 American Arborvitae, 3-3, 15 to 20 ins. 80.00 2-2, 4 to 8 ins. 10.00 50.00 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | Norway Spruce. | ~ | -0.00 |
| 2-2, 4 to 8 ins | 2-2. 8 to 14 ins | 16.00 | 80.00 |
| 2-1, 3 to 5 ins. 6.00 30.00 White Pine, 2-2, 8 to 15 ins. 10.00 50.00 \(\) 2-1, 4 to 8 ins. 8.00 \(\) American Arborvitae, 3-3, 15 to 20 ins. 80.00 \(\) 2-2, 4 to 8 ins. 95.00 \(\) 2-2, | 2-2 4 to 8 ing | | |
| White Spruce, 2-1, 3 to 5 ins. 6,00 30,00 White Pine, 2-2 8 to 15 ins. 10,00 2-1, 4 to 8 ins. 8,00 40,00 American Arborvitae, 3-3, 15 to 20 ins. 80,00 3-3, 8 to 15 ins. 35,00 2-2, 4 to 8 ins. 10,00 50,00 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | 2-1. 3 to 5 ing | | |
| White Pine, 2-2, 8 to 15 ins., 10.00 50.00 2-1, 4 to 8 ins., 8.00 40.00 American Arborvitae, 80.00 3-3, 15 to 20 ins., 80.00 2-2, 4 to 8 ins., 10.00 50.00 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000. | | | |
| 2-1, 4 to 8 ins 8.00 40.06 American Arborvitae, 3-3, 15 to 20 ins | White Pine 2.2 8 to 15 ins | | |
| American Arborvitae, 3-3, 15 to 20 ins | 2-1 4 to 8 ing | | |
| 3-3, 15 to 20 ins | American Arborvitae | 0.00 | 20.00 |
| 3-3, 9 to 15 ins | 2-2 15 to 20 ing | 00.08 | |
| 2-2, 4 to 8 ins 10.00 50.00 Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quan- tites of 25,000. | 2-3 8 to 15 ing | 35.00 | |
| Cash; or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quan- tites of 25,000. | | | 50.00 |
| balance C.O.D. 5 per cent discount on quan- tites of 25,000. | Cash: or 25 per cent deposit | with. | |
| tites of 25,000. | balance COD 5 per cent disco | unt on | onan- |
| | titag of 95 ann | une on | dugu- |
| | | looto | Da |

SAM DIBLE NURSERY, Shelocta, Pa. 1952 LINING-OUT STOCK. once transplanted; TT—twice transplanted; FR—field rows; Sdlg.—seedlings. Per 100 Per 1000

| | | | 61 1000 |
|--------|----------------------------|-------|----------|
| 2000 | Acer negundo, 2-yr., | | |
| | sdlgs | | \$ 60.00 |
| 15,000 | Althaea, 1-yr., sdlgs | 4.50 | 35.00 |
| 2000 | Cornus kousa, 1-yr., | | |
| | sdlgs | 5.50 | 45.00 |
| 2000 | Cornus kousa, 3-yr., T. | | |
| | FR | 30.00 | 250.00 |
| 15,000 | Cydonia japonica, 1-yr., | | |
| | sdlgs. | 4.50 | 35.00 |
| 5000 | Cydonia japonica, 2-yr., | | |
| | T, FR | 8.50 | 75.00 |
| 8000 | Leucothoe catesbaei. | | |
| | 3-yr., TT. FR | 35.00 | 300.00 |
| 8000 | Leucothoe catebaei, | | |
| | 3-yr., TT, FR | 35.00 | 300.00 |
| 4000 | Picea excelsa, 3-yr., | | |
| | T, FR | 30.00 | 250.00 |
| | Pieris japonica, 2-yr., TT | 30.00 | 250.00 |
| 1500 | Rosa rugosa, 6 to 8 ins. | 8.50 | 75.00 |
| 1500 | Rosa rugosa, 9 to 12 ins. | 12.50 | 110.00 |
| 2500 | Taxus media hatfieldi, | | |
| | 2-yr., T | 30.00 | 250.00 |
| 2500 | Taxus media helleri, | | |
| | No. 92, 4-yr., TT, FR. | 50.00 | 450.00 |
| 3000 | Taxus media hicksi, | | |
| | 2-yr., T | 30.00 | 250.00 |
| 3500 | Taxus media hicksi, | | |
| | 4-yr., TT, FR | 50.00 | 450.00 |
| 1500 | Taxus media hicksi, | | |
| | 5-yr., TT, FR | 80.00 | 700.00 |
| 2500 | Taxus media microphylla. | | |
| | 4-yr., TT, FR | 50.00 | 450.00 |
| 2500 | Thuja occidentalis pyra- | | |
| | midalis, 2-yr., FR | | |
| | grafts | 70.00 | 600.00 |
| 3000 | Wistaria sinensis, | | |
| | 1-yr. sdlgs | 4.50 | 35.00 |
| | | | |

EVERGREEN SEEDLINGS.
Scotch Pine, 1-0, 1 to 3 ins... \$12.00
Austrian Pine, 1-0, 1 to 3 ins... \$12.00
Scotch Pine, 2-0, 4 to 8 ins... \$4.00
Colorado and Englemann Blue
Spruce, 2-0, bed run... \$3.00
Austrian Pine, 1-2, 8 to 8 ins... 10.00
ARTHUR CASH NURSERY, Angola, N. Y. \$12.00 12.00 25.00 25.00

Samples mailed on request. BOULEVARD NURSERIES, Newport, R. I.

| JANUARY 1, 1952 | |
|--|--|
| LINING-OUT STOCK. | |
| LINING-OUT STOCK. Scotch Pine, 1-0, 1 to 3 ins \$2.50 Scotch Pine, 2-0, 3 to 8 ins \$2.50 Scotch Pine, 1-1, 3 to 6 ins 3.00 Scotch Pine, 1-1, 3 to 6 ins 4.00 Austrian Pine, 2-0, 3 to 5 ins 3.00 Mugho Pine, 3-0, 4 to 8 ins 5.00 Mugho Pine, 2-1, 3 to 6 ins 5.00 Mugho Pine, 2-2, 4 to 8 ins 10.00 Himalayan White Pine, 2-1, 3 to 8 ins 6.00 Table Mountain Pine, 1-2, 6 to 12 ins 6.00 | \$12.50 25.00 35.00 25.00 45.00 45.00 90.00 |
| 3 to 8 ins 6.00 | 60.00 |
| Table Mountain Pine, 1-2, 6 to 12 ins | 50.00 |
| Colorado Blue Spruce, 2-1, 3 to 5 ins 6.00 | 50.00 |
| Colorado Blue Spruce, 2-2, | 75.00 |
| Colorado Blue Spruce, 2-1, 3 to 6 ins | 20.00 38.00 50.00 |
| 2 to 4 ins | 25.00 |
| White Spruce, 2-0, 2 to 5 ins 3.00 | 45.00 25.00 |
| 3 to 6 ins | 40.00 30.00 |
| 1 to 2 ins | 18.00 |
| 2 to 4 ins | 10.00 |
| Woodward Globe Arboryttae. | 18.00 |
| 2 per cent discount for cash with ord | ler. |
| n. 2, Dox 203 Grand Haven, | Mich. |
| | |
| Andromeda (Pieris jap.), 4 to 6 ins Azalea Gumpo, 2 to 4 ins | . \$0.17 |
| CHOICE LINERS Andromeda (Pieris jap.), 4 to 6 ins. Azalea Gumpo, 2 to 4 ins. Azalea Gumpo, budded, 4 to 6 ins. Azalea macrantha, 4 to 6 ins. Daphne mesereum, 4 to 6 ins. Daphne mesereum, 6 to 8 ins. Daphne mesereum, 16 to 10 ins. Daphne mesereum, 16 to 12 ins. Daphne mesereum, 12 to 14 ins. Heather, Sprinswood White, 2 to 4 ins. Heather, VeVilli, 2 to 4 ins. X. Lithospurmum (Heavenly Blue), 3-in, pot | . 25 . 25 . 10 . 12 . 17 . 22 . 27 . 45 X . 15 |
| 3-in, pot | 35 10 17 25 35 |
| Viburnum burkwoodi. 8 to 10 ins. Daphne encorum Juniperus tamariscifolia, 2 to 4 ins. Juniperus tamariscifolia, 4 to 6 ins. Juniperus tamariscifolia, 6 to 8 ins. Juniperus sargenti, 4 to 6 ins. Juniperus sargenti, 6 to 8 ins. Juniperus sargenti, 6 to 8 ins. Juniperus sargenti, 6 to 8 ins. Cash with order, please. FOUR STAR NURSERY Rt. 3, Box 3529, Edmonds. Wash. | 12 10 15 18 14 17 |
| EVERGREEN ROOTED CUTTING | 4. |
| Rooted. 10 Each | 1000 |
| Arborvitae, Globe \$0.10 \$0.09 Arborvitae, Pyramidal 10 .09 Juniper, Irish 12 .11 Juniper, Pfützer 12 .11 Juniper, Pfützer 12 .11 Taxus capitata, 6 to 10 ins. 20 .18 Taxus cuspidata, 6 to 10 ins. 10 .09 Taxus hicksl, 6 to 10 ins. 10 .68 Taxus intermedia. 6 to 10 ins. 10 .68 Taxus intermedia. 6 to 10 ins. 10 .68 | \$0.08 .08 .10 .10 .16 .08 .08 |
| Arborvitae, Globe | .16 |
| Juniper, Pritzer | .16 |
| Taxus cuspidata, 6 to 10 ins | .24 .13 .13 .13 |
| Arborvitae, Globe | |
| only. 300 at 1000 rate; no charge for packir DRAKE'S NURSERIES G-4342 Branch Rd., Flint, Mich. | |
| | _ |
| Andorra Juniper, 6 to 8 ins., T.\$12.00 \$1 Andorra Juniper, 8 to 10 ins., T 15.00 1 Andorra Juniper, 9 to 12 ins., | 1000 00.00 25.00 |
| Andorra Juniper, 10 to 15 ins., | 25.00 rans- nent. upply |
| EVERGREEN TRANSPLANTS | |
| Juniperus pfitzeriana, | r 100 |
| EVERGREEN TRANSPLANTS. Juniperus pfitzerians. 6 to 9 ins., XX, field. Juniperus Von Ehron. 9 to 12 ins., XX, field. Taxus cuspidata, cut back. 6 to 10 ins., XX, field. Cash with order. Packing free. DAMASCUS NURSERIES Damascus. | 30.00 |

XUM

| EVERGREEN LINERS and CUTTINGS, POT-GROWN EVERGREEN LINERS. | Juniperus v Platte River free, 4 to 8 |
|--|--|
| Arborvitae, Pyramid. 1-yr., 6 to 7 ins | livability. We |
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| From flats, rooted outside in lath house. Each—Per 100 Per 1000 | Book your grown liners, tings. Write million liners |
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| | 12 to 18 ins |
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| Cutleaf Red-berried canadensis Hydrangea P.G. Hydrangea A.G. Privet, Amur Regel (true) Ibota Honeysuckle, morrowi bella albida bella rosea tat, rosea korolkowi | 4.00 5.00 3.00 5.00 5.00 3.00 5.00 3.00 |
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| canadensis Hydrangea P.G. Hydrangea A.G. Privet, Amur Regel (true) Ibota Honeysuckle, morrowi bella albida bella rosea tat, rosea korolkowi | 3.00 5.00 5.00 3.00 5.00 3.00 |
| Hydrangea P.G. Hydrangea A.G. Privet, Amur Regel (true) Ibota Honeysuckle, morrowi bella albida bella rosea tat, rosea korolkowi | 5.00 5.00 3.00 5.00 3.00 3.00 |
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| bella rosea | 3.00 |
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\$16.00 per 100.

The new pale yellow Forsythia which is
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40c B-3

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70c ea.
POPLAR, Simon. 4 to 6 ft., 30c ea.
POPLAR, Simon. 4 to 6 ft., 30c ea.
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FLOWERING SHRUBS.
3 and 4-yr.-old, transplanted and twice cut

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Aralia pentaphylla, 2 to 3 ft., 3 to 4 ft.,
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Cornus amonum, 3 to 4 ft., 4 to 5 ft.,
5 to 6 ft.
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Lonicera tatarica rubra, 2 to 3 ft., 3 to 4 ft.,
4 to 5 ft.
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4 to 5 ft.

Lonicera tatarica rubra, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.
Philadelphus coronarius, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.
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Philadelphus virginalis, 2 to 8 ft.
Physocarpus nanus (Dwarf Ninebark), 3 to 4 ft., 4 to 8 ft.
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The above stock is in surplus and we can quote special prices on quantity lots. Write for special quotations.
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Strong 1-yr., grafts, 6 to 12 ins., \$75.00 per 100. per 100.
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Immediate and Spring, 1952.
Field-grown Evergreen Liners.
All liners are well rooted and are first-class
Per 100 Per 100 Per 1000

Spiny Greek Juniper, liners 1-yr., 6 to 12 ins........\$0.12½ \$0.10

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| 2-yr., 6 to 8 ins., XX, heavy.\$35.0 2-yr., 8 to 10 ins., XX, heavy. 40.0 | Per 1000 0 \$300.00 0 350.00 0 400.00 |
| 2-yr., 10 to 12 ins., XX, heavy. 45.0 2-yr., 5 to 8 ins., X, ilghter grade | 0 180.00 ders are |
| 20 per cent cash with order. | |
| 204 Delaware Ave. Palmyra, Ne | w Jersey |
| PIN OAK (Querous nalustria) w | hins. |
| These 3-year, field-grown transplants in a hurry and | ants wil |
| PIN OAK (Quercus palustris) w These 3-year, field-grown transplemake finished stock in a hurry and to be confused with seedlings. We ti will agree that they are an exception | hink you |
| at the following prices: | Per 1000 |
| t the following prices: 12 to 18 ins | \$0.16 .15 .20 |
| No packing charges. FORREST KEELING NURSER | |
| Mimosa (Silk Tree) Albizzia Julib | rissin. |
| to 4 ft to 5 ft branched to 6 ft branched These trees have straight stems, propagated from the best deep pink-i rees that we know of in Oklahoma way we strive for permanent sati This should mean a lot to you a | \$20.06 30.06 45.00 and are lowering . In this |
| way we strive for permanent sati This should mean a lot to you a customers. Liberal grading. No packing cha WARREN & SONS NURSER Rt. 4, Box 135c Oklahoma Ci | nd your |
| Rt. 4, Box 135c Oklahoma Cir | ty, Okla. |
| EUROPEAN WHITE BIRCH | |
| Per 100 | Per 1000 |
| 3 to 4 ft | \$100.00 65.00 |
| Betula Alba. Betula Alba. Per 100 3 to 4 ft | 55.00 45.00 |
| 9 to 12 ins | 40.00 |
| POWELL VALLEY NURSER | K. |
| 210 S.E. Vista Ave., Gresham, (| |
| 210 S.E. Vista Ave., Gresham, (| ple. |
| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winesap, Staym nd Yellow Delicious, Rome Beauty, Jolden, 1 to 1%-in., \$65.00: 1%-in. | ple. an, Red Grimes and up, |
| 210 S.E. Vista Ave., Gresham, C. A few large 3 and 4-year-old Ap Jonathan, York, Winesap, Staym and Yellow Delicious, Rome Beauty, Jolden, 1 to 1%-in., \$65.00: 1%-in. | ple. an, Red Grimes and up, |
| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winesap, Staym nd Yill, Delelcious, Rome Beauty, lolden, 1 to 4, 18, 56, 60: 1¼-in, lold, 1 to 4, 18, 18, 14, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18 | ple. an, Red Grimes and up. \$1.50; 00 each, to 3-in. |
| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winesap, Staym nd Yellow Delicious, Rome Beauty, loiden, 1 to 1½-in., \$65.00: 1½-in. 100.00 per 100, \$50 American Ash, 1½ to 1½-in. ½ to 2-in., \$1.85; 2 to 2½-in., \$3. in Oak, Soft and Hard Maple from 1 al. EGYPTIAN NURSERY & LANDSCA hone: 64 Fa | ple. an, Red Grimes and up \$1.50; 00 each, to 3-in. PE CO. rina, III. |
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| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winesap, Staym Inden, 1 to 114-in., \$65.00: 134-in. 1010 American Ash, 114 to 114-in. 1011 Annual Ash Annual Ample from 1 1011 Annual Ample from 1 1012 Annual Ample from 1 1013 Annual Ample from 1 1013 Annual Ample from 1 1014 Annual Ample from 1 1015 Annual Ample from 1 1016 Annual Ample | ple. an, Red Grimes and up \$1.50; 00 each, to 3-in. PE CO. rina, III. |
| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winessp, Staym and York, Winessp, Staym look, Soft and Hard Maple 1½-in. 1500 American Ash, 1½ to 1½-in. 1500 American Ash, 1½ to 1½-in. 1½ to 2-in., \$1.85: 2 to 2½-in., \$3. Pin Oak, Soft and Hard Maple from 1 al. EGYPTIAN NURSERY & LANDSCA Phone: 64 BEAUTY BUSH. Kolkwitzia amabilis (Beauty Bush) Strong 2-yr., tr. 12 to 13 ins., brance 175.00 per 1000. These are strong liners and could for mail-order business. C. HOOGENDOORN Turner Road LINING-OUT STOCK, 1952. Cornus florida, 1-yr. grafting size, \$8.00 ornus florida, 1-yr. Additional liners including novelti- | ple, an, Red Grimes and up \$1.50; 00 each, to 3-in. PE CO. rina, Ill. ched be used ort, R. I. Per 1000 \$75.00 60.00 ies. List |
| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winessp, Staym and Yellow Delicious, Rome Beauty, loiden, 1 to 1½-in., \$65.00: 1½-in. 100.00 per 100, \$1.85: 2 to 2½-in., \$3. \$50 American Ash, 1½ to 1½-in., \$3. \$70 Cak, Soft and Hard Maple from 1al. EGYPTIAN NURSERY & LANDSCA Phone: 64 BEAUTY BUSH. Colkwitzia amabilis (Beauty Bush) Strong 2-yr., tr., 12 to 13 ins., brane \$10.00 per 100. These are strong liners and could or mail-order business. C. HOOGENDOORN Turner Road LINING-OUT STOCK. 1952. Per 100 Cornus florida, 1-yr. grafting size\$8.00 Ornus florida. 1-yr. LO. S 7.00 Additional liners including noveltin request. GULF STREAM NURSERY, In Wachapreague, Va. | ple, an, Red Grimes and up \$1.50; 00 each, to 3-in. PE CO. rina, Ill. ched be used ort, R. I. Per 1000 \$75.00 60.00 ies. List |
| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winessp, Staym and Yow Delicious, Rome Beauty, Golden, 1 to 14, 18, 450.00; 14, 10, 1500 American Ash, 1½ to 1½-in, 1500 American American 1500 American | ple, an, Red Grimes and up \$1.50; 00 each, to 3-in. PE CO. rina, Ill. ched be used ort, R. I. Per 1000 \$75.00 60.00 ies. List |
| 210 S.E. Vista Ave., Gresham, C A few large 3 and 4-year-old Ap Jonathan, York, Winesap, Staym and Yellow Delicious, Rome Beauty, Golden, I to 1½-in., \$55.00: 1½-in. \$100.00 per 100. \$100.00 per 100. \$100.00 per 100. \$100.00 per 100. \$115.00 American Ash, 1½ to 1½-in., \$3. \$12.00 per 100. \$100.00 per 100. | ple, an, Red Grimes and up \$1.50; 00 each, to 3-in. PE CO. rina, Ill. ched be used ort, R. I. Per 1000 \$75.00 60.00 ies. List |

| 4 to 6 ins., seedlings. 6 to 8 ins., seedlings. 6 to 6 ins., transplan 6 to 8 ins., transplan Water-tested seeds, per 100 lbs. | BA. Per 100 Per 1000 \$ 4.00 \$ 35.00 5.00 \$ 5.00 8 6.00 50.00 8 8.00 75.00 \$1.00 per lb.; \$75.00 BCOCK NURSERY Dansville, N. Y. |
|---|---|
| Viburnus Strong 1-yr., grafts, 16 \$65.00 per 100. \$600.00 per 1000. | RNUM. m carlesi.) to 18 ins. ENDOORN Newbort, R. I. |
| Magnolia soulangeana 2 to 3 ft., bare root 3 to 4 ft., bare root 4 to 5 ft., bare root WELCH BROS. NURS Lombardy Popla | \$1.25 2.00 2.75 ERY, Inc., Wilmer, Ala. r. Golden Willow. |
| Extra-n 8 to 10 ft., 35c; 1 | ce trees |

VEGETABLE ROOTS

| | | Per 100 1 | |
|-------------|-----------------|--------------|---------|
| Asparagus. | Washington. | 1-yr\$1.80 | \$12.50 |
| Asparagus. | Washington, | | |
| Horse-radis | h, whole cros | wns 5.50 | 50,00 |
| | h, cuttings, 6 | | |
| | ictoria, 1/2 to | | |
| Cash | please. No pac | cking charge | St. |
| PF | RITCHARD N | URSERIES | |
| | Th | ** | |

| PRITCHARD NURSERIES Rt. 4, Ottawa, Kan. | |
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CLEMATIS. montana rubens (Anemone Cle-Clematia

matis).

Strong 2-yr. field-grown plants, staked, 3
100.00 pt. 100.

A strong vigorous, extremely hardy variety trong vigorous, extremely hardy variety from the property of the most adverse conditions. Clusters of anemone-like flowers which open up in May. One of the most dependable Clematis.

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Turner Road Newport, R. I.

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Native black Walnuts and common Hickory nuts, 6c per lb. Scaley bark Hickory nuts, 8c per lb. F.O.B. Stilwell, Okla. In 50-lb. lots and up.

IDEAL FRUIT FARM Stilwell, Okla.

CHRISTMAS TREES

| CHRISTMAS TREE | SEE | DLINGS. | |
|------------------------|-------|-------------|--------|
| | Per | Per | Per |
| | 1000 | 10,000 6 | 0.000 |
| Prices per 1000 | | | |
| Scotch Pine, 1-0, | | | |
| 2 to 4 ins\$ | 10.00 | \$9.00 | \$8.00 |
| Austrian Pine, 1-0, | | | |
| 2 to 4 ins | 10.00 | 9.00 | 8.00 |
| These seedlings have a | in ex | ceptionally | fine |
| root system. | | | |
| VAN'S PI | NES | | |

West Olive, Mich

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| DAHLIA OR TREE LABELS. | |
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| Priced pe | r 1000 |
| plain p | ainted |
| 3 %x5/6 ing., notched, not wired.\$2.50 | |
| 3 1/4 x 5/6 ins., wired (copper) 3.30 | |
| POT LABELS. | **** |
| 4x% Ins. (cartons 1000 each) 2.76 | 3.30 |
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| Our labels are perfectly white and s | |
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| MINNE | SC | re | 1 | 1 | 7 | W | E | | [1 | Г | E | | C | ŀ | <u>[]</u> | D | 1 | U | R | ŀ | L | A | TS | š., | |
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| 12x16x2% | | | | | | | | * | | | | | | | | | × | . ! | 81 | 8 | 50 |) 1 | per | • | 10 |
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Clean, long-fibered, solidly packed in burtapped or wired bales of standard size,
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Picea omorika.
Picea orientalis.
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Viburnum macrocephalum sterile.
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Acer platanoides.
Ginkgo biloba, from male cuttings.
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Flowering Crab, own root.
HOOVER'S EVERGREEN FARM
Loch Raven, Md.

WANTED. 20 Prunus maritima. 10 about 4 to 5 ft. and 10 about 3 to 4 ft. Must be vigorous and

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Tamarix and common Lilac, seedlings and 1-yr, liners, and Russian Olive seedlings. HOME NURSERY Cuba, Kan.

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All season long, know how
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MONROVIA NURSERY CO. Box 196 Monrovia, California

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Business opportunity. Man with ex-perience in all phases of wholesale and retail will manage or make modest in-vestment to take over business. Midwest area preferred. Address Box 844, care of American Nurseryman.

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Write full details on lines now selling and
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HELP WANTED—Position available for landscape architect, experienced designer or undergraduate for position in our landscape department in Dallas, Tex. Address Box 852, care of American Nurseryman.

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Horticulturist, to develop plans and methods for maintenance of grounds in public housing projects. Should be capable of developing standards and resolving problems dealing with landscaped areas, concrete, blacktop areas and storm drains. Must know plants and trees. Prefer college degree in ornamental horticulture or related study plus 5 years' responsible experience in this field. Permanent position. Salary range: \$4650.00 to \$5750.00 per year. Write to Director of Personnel,

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Experienced, progessive, mail-order man for catalog work, advertising, correspondence, etc. Must be able to handle office personnel, etc. Good opportunity for experienced man with large nursery located in the east. Give full particulars; experience, salary, etc. Address Box 849, care of American Nurseryman.

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Experienced man to take charge of reenhouse for propagating evergreen ees and shrubs. Permanent position r the right man. State salary expect-

BENEDICT NURSERY CO. 735 N.E. 87th Ave. Portland, Ore.

HELP WANTED

Experienced rose man, Large, well known, eastern nursery has a good opening for alert man with experience in budding, growing, storing and shipping rosebushes for retail mall-order and wholesale trade, Please write full particulars, including salary expected. All correspondence confidential. Address Box 848, care of American Nurseryman.

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Experienced nurseryman to assist in management of retail landscape nursery. Should be able to do some selling both on and off nursery. House avail-able. References required.

STEELES NURSERIES Palmyra, N. J.

SITUATION WANTED

Propagator, with 25 years' experience with hardwood; and softwoods, tropical and subtropical. Can handle help efficiently, a good planner, also. Basic education in horticulture received in England and Scotland. South or middle south location desired. Address Box 851, care of American Nurseryman.

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Landscape man, capable, experienced. Can handle the job from drawing plans to completion of work. South or middle south location desired. Address Box 850. care of American Nurseryman.

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SCREENED SHREDDED GROUND

Portable and self-powered, this grinder mixes and screens earth with compost and commercial fertilizer fine enough for seeding flats and pots. Grinds tough organic matter through rolling screens. Separates trash from wanted materials. Sold with or without motor. Write for free circular.

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CUT GERMINATION TIME BY 3/5. TRANSPLANT 2
WEEKS SOUNCE. You, too, can gut those results.
Get free place — instructions.

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TWENTY-FIVE years a landscape gardener and city beautification director at Daytona Beach, Fla., Robert W. Logan has purchased Palmland Nursery, 922 Volusia street, Daytona Beach, where he will specialize in landscape design. His partner in the firm is Mrs. Margaret Jetter.

OBITUARY

Louis Holland.

Louis Holland, 80, a pioneer nurs-ery operator in the Seattle, Wash., area, died suddenly Sunday morning, December 9, in his home at Edmonds, Wash. Mr. Holland, who was born in Norway, established his first nursery at Seattle in 1906. He moved to Edmonds in 1916.

Surviving are a son, Arthur G., of Edmonds; two daughters, Mrs. Robert Gant and Mrs. Grace Sparks, of Seattle, and a sister, Mrs. Jennie M. B. S. Smith, of Longview.

Clarence Aldrich.

Clarence Aldrich, 71, of Aldrich's Nurseries, Farmington, Mich., died December 9 at Henry Ford hospital, Detroit.

A native of Dayton, O., Mr. Aldrich worked part time during his high school years at the nurseries of the Siebenthaler Co., Dayton. Upon graduation, he accepted a position at the old Hoover & Gaines Nursery, Dayton, and later worked for Mr. Gaines at the Xenia Star Nursery, Xenia, O. While still a young man, he started his own nursery at Clyde, Mich., and about 1920 he purchased the site of his nursery at Farmington. On about twenty acres he grew specimen sizes of evergreens, as well as a limited list of shade trees and

In recent years he spent his winters in Florida, where he accumulated a notable collection of snail shells.

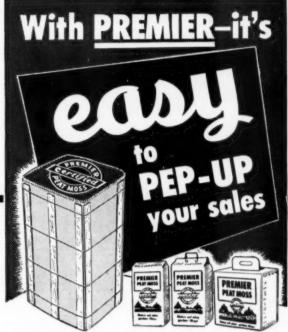
Survivors include his widow, Marie; a son, Roy, manager of the Clyde Nursery, and another son associated with Aldrich's Nurseries, at Farmington.

Imported **DUTCH BURLAP SQUARES REED MATS**

HOLLAND and GERMAN

PEAT MOSS **CLOVERSET POTS** AVAILABLE AT ALL TIMES

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It's easy to "pep-up" your soil - by using Premier for all seedbeds, transplanting and mulching. And it's easy to pep-up your sales—by letting customers know you carry this outstanding soil conditioner, in popular packages from 1-pot bags to big bales. Premier is the biggest-selling Peat Moss—to nurserymen and to nurserymen's customers.

Send now for prices on Premier Peat Moss-Canadian or European-98% organic and weed-free.

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Improved performance with

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LANDSCAPE CONFERENCE.

[Continued from page 13.]

rain and general site situations. He stated that he had reviewed a number of articles written on determining costs for landscape work, but that they did not agree with each other, due mainly to the individual conditions under which the work was done. He stated that each individual must set up his own cost system and keep records for at least two seasons before he can reach a fairly good degree of accuracy. The speaker said that in addition to the direct costs which may be charged to the particular job, the proportion of overhead must also be charged for each special operation and an allowance made for profit.

Professor Gartner indicated that the time and material method usually does not show much profit for the landscape man. He favored the contract basis, which hides the high cost of labor that often is objectionable to customers. Another advantage of the contract system is that the customer knows exactly what the cost will be at the completion of the job and will have this amount of money ready to pay at its conclusion. He continued, however, that landscape maintenance work may often need to be done on a time and material basis because both the character and the time requirement of maintenance operations vary widely throughout the season, and one may not be able to predict just what eventualities may arise to cause a greater consumption of time.

Lawn Construction.

"Grading and Lawn Construction" was the topic of Dr. Carter Harrison, of the farm crops department, who indicated that the first point of importance was to clean away the debris left by the builders, which may be evident on top of the ground, but may in some cases be buried beneath the surface, and that the land should be explored for buried plaster, lumber, lime, concrete and other foreign materials. He stated that the topsoil should be saved from the excavation if possible and used in preparing the seedbed. Dr. Harrison advocated the selection of grass seeds which would produce a lawn suitable for both the locality and the individual site and then sowing these seeds at the proper time, which in Michigan he considers to be from August 10 to September 1. Dr. Harrison believes that only a single kind of grass seeds should be sown and that the subsequent lawn would be much superior to one in

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which a grass seed mixture was used. He also stated that most people use too many seeds per unit area and that a lighter rate of seeding would produce a better lawn.

Wider use of ground covers may often be desirable, according to Prof. Joe Cox, extension landscape architect, particularly in areas where grass does not thrive. These ground covers save mowing and general lawn care. He said that the ranch-type house particularly needs different treatment from that given the older type of residence and that, while clumps of low-growing evergreens and shrubs are quite in order, it may be best to break the monotony by an occasional well placed taller plant.

The desirability of studying the site requirements of plants as well as their suitability in landscape design was stressed by Prof. F. L. O'Rourke. He emphasized particularly the placement of shallow-rooted and somewhat tender evergreens on the northeast side of houses or slopes where the supply of water throughout the year would be more abundant than on the south or west sides.

Shrubs are excellent to frame flower areas and blend into the background, said Dr. C. E. Wildon, de-

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partment of horticulture. Flowers are particularly useful to create masses of color. Dr. Wildon stressed the selection of species and varieties which are adapted to the particular locality and site in which they are to be planted. There are so many different types of flowering plants in the trade that proper selection of those suited to the particular area is essential to avoid poor results.

Prof. Harold Davidson stressed the point that the maintenance man often is not considered by the landscape architect or contractor at the time of planting and that it is only by previous planning that the maintenance operations may be made efficient. The speaker emphasized the fact that no property should be developed to an extent greater than that for which subsequent maintenance may be provided and that no garden should be constructed unless the customer is garden-minded enough to expend the necessary sums for care and upkeep in future years. Maintenance jobs should be done promptly and planned thoroughly.

NEBRASKA CONVENTION.

[Continued from page 14.]

One of the three main points by which Dr. Chadwick judges the quality of a shrub is hardiness, although unreasonable extremes of temperature on rare occasions are not taken into account. He also judges shrubs by their adaptability to soil and environment and by their durability. Shade trees generally should live throughout the lifetime of the owner, and other decorative material should live from five to ten years. Perhaps a few plants with a 1 to 2-year life expectancy might be used if the owner understands at the time of planting that they are short-lived. Dr. Chadwick stated that in promoting plant materials, too much emphasis is placed on the flowers and not enough on the

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form, foliage, fruits and functional uses of the plants.

Jack Hill, D. Hill Nursery Co., Dundee, Ill., presented an informative talk on "Contour Nursery Practice." He described the history of soil management practiced on the large acreage where his firm has been raising trees for seventy-five years. He mentioned the need for soil conservation all over America and the importance of impressing on every nurseryman the benefits which can be derived from soil conservation practices on his own land. Mr. Hill also discussed the spacing of trees in nursery rows and his experience with mulches, soil conditioners and fertilizers.

Vernon Marshall, Professor Chadwick and Jack Hill served as moderators and chief targets for questions at a panel session held after luncheon. The panel continued for two and one-half hours, during which time questions on all phases of the nursery business were covered. In-terest in the panel was indicated by the fact that Guy Brown, Geneva, had a notebook of questions prepared in advance. Another questioner, Harvey Williams, Williams Nurseries, Lincoln, was accused of bringing his questions in a brief case.

W. J. Smart, D. Hill Nursery Co., Dundee, Ill., accompanied by his son Jim, made a three weeks' sales trip to the Pacific northwest at the end of November, covering the territory by airplane.

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WISCONSIN MEETING.

[Continued from page 9.] bear more consideration than they are given, and among them is the production of nursery stock and its placing in the landscape.

Because of the absence of H. E. Halliday on account of illness, E. L. Chambers, state entomologist, talked about some of the more important nursery pest problems in 1952. Several of these are the subject of mimeographed instructions-in place of the out-of-print bulletin-and nurserymen may obtain copies by writing to the state entomologist's office, Room 424 N. E., State Capitol, Madison 2, Wis. These sheets cover elm black leaf spot, oyster-shell scale, box elder bugs, European elm scale and juniper aphis. Also available is a 2-page release on rodent control problems with reference to moles, mice and rabbits, as well as the dormant spray program issued in mimeographed form a year ago and discussed at length in the December 1 issue of the American Nurseryman.

Phil Smith, of the state entomologist's office, followed with a discussion of other pests. He told about the European corn borer and its control through parasites imported, propagated and distributed at various points in the state.

The illustrated talk by Dr. L. C. Chadwick, of Ohio State University, on "Dwarf Shrubs for Planting Ranch-type Homes," is reported separately, with lists of shrubs suggested for the purpose.

Short Course Discussed.

Speaker at the afternoon session was Prof. O. B. Combs, chairman of the department of horticulture at the University of Wisconsin, who has been instrumental in promoting cooperation between the nurserymen of the state and the college of agriculture. Outlining the



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work done at present, according to the courses given and the men instructing in them, he indicated possible expansion so as more nearly to satisfy those Wisconsin students seeking training in horticulture. Expansion of personnel will make possible additions to the curriculum. The possibility of a short course on nursery topics was discussed, and the day of such an event seemed closer.

As chairman of the short course committee, Kenneth Greaves then presented a lengthy report in which he told of the growing interest in a short course over a period of years. The committee had compiled a list of subjects which might be the topics of successive short course sessions. They might be more quickly covered by holding a one-day course in summer and one in connection with the winter meeting. In conclusion, it was voted that the incoming president appoint a committee to study the project further.

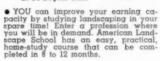
Exhibits

In rooms adjoining the meeting hall were a half-dozen commercial exhibits by the following firms: D. Hill Nursery Co., Dundee, Ill., evergreen grafts; Golf & Garden Equipment Co., Elm Grove, Wis., sprays and garden supplies; Kellogg Seed Co., Milwaukee, lawn seeds; John Rauschenberger Co., Milwaukee, cordage; W. G. Slugg Feed & Grain Co., Milwaukee, fertilizers and pesticides, and R. L. Ryerson Co., Milwaukee, lawn and garden maintenance equipment.

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COVER ILLUSTRATION.

Amelanchier Grandiflora Rubescens.

One of the most widespread genera of native plants is amelanchier. Species are found growing from coast to coast and from Maine and Vermont south to South Carolina, Georgia, Louisiana and New Mexico. The serviceberries, shad-blows or Juneberries, as the amelanchiers are called, vary in size from small shrubs to trees of forty feet or more. The most pleasing of the serviceberries are the small trees.

Amelanchier grandiflora rubescens, while not common in the trade, is nevertheless one of the most beautiful species. The species is a hybrid between canadensis and laevis, two common species. The flowers of the species are white, but those of the variety are purplish-pink in bud and tinged pink when open.

Amelanchier grandiflora rubescens is a small tree, eventually reaching about twenty-five feet in height. Plants can be grown as a shrubby form, with multiple stems, or as a small tree with upright-spreading branches. The bark of the branches and the trunk is gravish in color, and the twigs bear at their ends long, pointed buds with few scales.

The leaves are alternate, toothed and about two and one-half inches long. They exhibit a purplish color when unfolding, but soon become green. The fall foliage color is yellow to reddish-yellow. The flowers of this variety are the largest and most decorative of the serviceberries. They are produced in late April or early May and may be effective for only a few days. The fruits are purplishblack and ripen in midsummer. The berrylike fruits are edible.

The origin of the name, amelanchier, is unknown. The species name, grandiflora, means large-flowered



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and the variety name, rubescens, means becoming red. The species has been in cultivation since 1870, and the variety was described by Alfred Rehder in 1920.

The tree types of amelanchiers do best in a good, well drained soil containing considerable organic matter. Small sizes transplant readily bareroot, but larger sizes should be moved with a ball of soil. There are few pests of importance. Propagation of the variety may be accomplished by grafting.

Amelanchier grandiflora rubescens is adapted for specimen planting, for group planting on large estates, for landscaping in parks and for naturalizing. L. C. C.

PLANT NOTES.

[Continued from page 18.]

on a north slope, where they could be given the benefit of shade from rocks during the middle of the day. I suspect that the same would apply throughout all the midwest and east. The fertility of the soil seemed not so important as perfect drainage, because these woolly-leaved plants highly resent an excess of moisture around their crowns at any season. We used the ordinary sandy soil of this section with about one-fourth as much leaf mold and a top-dressing of stone chips. Rosettes taken with an inch or two of runner attached and inserted in sand with the rosette resting on the surface root readily at almost any time of the year, assuring a rapid means of increasing one's stock.

Crown Imperial.

A card which just reached the desk reads in part as follows: "I have just planted a number of crown imperial bulbs in my show garden. How should I treat them?"

It is probably too late now to treat



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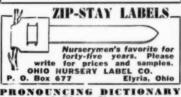
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them right for next year unless you came fairly close to the ideal conditions, which will be mentioned later. Please understand that these are the ideal conditions and they may be varied or even ignored entirely while still obtaining satisfying results, because the crown imperial is an accommodating plant after it becomes established.

In our experience we found that crown imperials grow best in a spot that is shaded during the hottest part of the day. Put in a layer of rich soil, well rotted manure if possible, a foot underground, over which place six inches of topsoil and plant the bulbs on that, filling in the remaining six inches with ordinary garden soil. Incidentally, the old garden practice of never cutting the stems, but rather letting all the nutrients go back to the bulb, apparently was based on the fact that the plants need that stimulus to insure annual flowering.

A Thought on Bouncing Bet.

While going through the catalog file this morning, looking for a source of supply for an unusual plant, I noticed in the list of a specialist that he featured the double-flowering form of bouncing Bet, and that leads to the hope that the old girl and her children are on the way back to our gardeners' favor.

There was a time when the plant in some form was an inhabitant of every garden.

Bouncing Bet's presence along many country roads, in the vicinity of old gardens, speaks eloquently of a persistence and ease of culture which should interest busy gardeners today. That same persistence tells one to look out for the plant among more delicate neighbors; other than its spreading habit, which is a good one in unconsidered places, it has no bad features. In practice it lives up to its reputation by settling down in any sunny or partly shaded spot to the task of creating a colony of its kind. During its long



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sojourn in gardens, it has varied into a number of forms, with single and double flowers in shades of pink and white, on plants to eighteen inches in height and with a blooming period that covers the difficult month of August.

Aubrieta.

An Ohio reader writes that he operates his nursery on a heavy clay, where he finds aubrietas difficult to keep over winter, and asks for "some down-to-earth dope" on his troubles.

First of all, the nature of aubrieta calls for perfect drainage, something that is not always easy in a stiff soil. If I were gardening on that kind of soil, I would give the plants a steep crevice in rock garden or wall, or fit a place for them by excavating to a depth of eighteen inches or more, filling in the bottom with coarse gravel, broken bricks or other drainage material. I would complete the job with a mixture of sand, loam and leaf mold. If I were growing aubrietas commercially on that kind of soil, either prepared coldframes would be used or the plants would be grown in pots.

All this may sound like a lot of bother; the results are, however, worth the effort, and no such precautions are necessary if the soil is light and well drained to start with. The plants are almost as easily raised from seeds as radishes, and all one needs to look out for is excess watering. They will show not a little variation when grown from seeds, many of them on the magenta side, having little appeal to the particular gardener. There are sure to be named varieties in the catalogs of specialists to fill most needs. They and any favorite color you may now have in your planting may be increased in the following manner:

Shear back the plant as soon as it is through flowering. That will cause it to send out new growths, and these may be pulled away when they are about two inches long, making sure that a heel of the old wood is attached to each cutting. Trim off the bottom leaves, insert them in pure sand in a shaded frame and keep watered until they have a good root system. Then they should be moved to a more fertile soil until ready to sell.

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